

Appendix F.3

2021 Surface Water Monitoring Report



2021 Surface Water and Sediment Monitoring Report

Goldboro Gold Project

Anaconda Mining Inc.

May 20, 2022

GHD

110, 120 Western Parkway

Bedford, Nova Scotia B4B 0V2, Canada

T +1 902 468 1248 | **F** +1 902 468 2207 | **E** info-northamerica@ghd.com | **ghd.com**

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List of Acronyms

BV Labs	Bureau Veritas Laboratories
CCME	Canadian Council of Ministers of the Environment
COA	Certificate of Analysis
COC	Chain of Custody
DO	Dissolved Oxygen
EARD	Environmental Registration Document
EQS	Environmental Quality Standard
FWAL	Fresh Water Aquatic Life
NS	Nova Scotia
NSE	Nova Scotia Environment
NSECC	Nova Scotia Department of Environment and Climate Change
ORP	Oxidation-Reduction Potential
PA	Project Area
QAI/QC	Quality Assurance/Quality Control
RBCA	Risk Based Corrective Action
ROM	Run-of Mine
RPD	Relative Percentage Difference
TDS	Total Dissolved Solids
TMF	Tailings Management Facility
WQG	Water Quality Guidelines
WRSA	Waste Rock Storage Area

1. Introduction

1.1 Purpose

GHD Limited (GHD) is pleased to present Anaconda Mining Inc. (Anaconda) with the results of the 2021 baseline surface water monitoring for the proposed Goldboro Gold Project (the Project), located in Guysborough County, Nova Scotia. GHD completed baseline surface water and sediment monitoring at the proposed Goldboro Gold Mine Site during 2021 on behalf of Anaconda. This report is provided as part of the technical and permitting services in support of a Provincial Class 1 Environmental Assessment Registration Document (EARD) submission to the Nova Scotia Department of Environment and Climate Change (NSECC) for the Project.

The following annual report presents the findings from the 2021 surface water monitoring program.

1.2 Scope and Limitations

This report: has been prepared by GHD for Anaconda Mining Inc. and may only be used and relied on by Anaconda Mining Inc. for the purpose agreed between GHD and Anaconda Mining Inc. as set out in section 1.1 of this report.

GHD otherwise disclaims responsibility to any person other than Anaconda Mining Inc. arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report (refer section 5 of this report). GHD disclaims liability arising from any of the assumptions being incorrect.

1.3 Background

The Project is located on the eastern shore of Isaac's Harbour, in Guysborough County, Nova Scotia, Canada. The site is located approximately 175 kilometres (km) northeast of Halifax, 60 km southeast of Antigonish, and 1.6 km northeast of the community of Goldboro. Anaconda proposes to develop the Project as a 4,000-tonne per day (tpd) mine and processing facility. For the purpose of this environmental assessment, a Project Area (PA) was defined as the footprint of the Project related infrastructure, plus a buffer of 100 – 200 m. The mine plan includes two surface extraction areas (open pits), an ore processing facility, a tailings management facility (TMF), three waste rock storage areas (WRSAs), overburden and organic stockpiles, support buildings including an employee accommodation building, and associated infrastructure. The anticipated mine life for extraction of ore is approximately 11 years.

The scope of the Project includes activities associated with construction, operation, and closure. Project construction activities will include clearing and grubbing the overburden and organic stockpiles, WRSAs, pit, plant, and TMF areas, and construction of the initial lift of the TMF, plant site, secondary access roads, construction laydowns, Run-of-Mine (ROM) pad, surface water management and other site infrastructure. The operation phase will include conventional ore extraction methods (drilling, blasting, loading, and hauling), ore processing, and waste management. ROM ore will go directly to the crusher while stockpiled high-grade and low-grade ore will be progressively processed throughout the mine life. Non-ore bearing waste rock, not used for construction or backfill, will be stockpiled at its final disposal point, managed and reclaimed in place. The closure phase will include earthworks and demolition required to return the PA to a safe, stable, and vegetated state, as well as all monitoring and treatment, if required.

2. Surface Water Monitoring

Surface water monitoring undertaken in 2021 included the collection of water quality samples, continuous water level and temperature measurements, as well as discrete velocity and in-situ water quality measurements. A summary of the surface water monitoring locations is described in **Table 1**. The methodology and results of the surface water monitoring program, as well as the discharge water quality monitoring are presented herein. Surface water monitoring locations are displayed on **Figure 1**.

GHD and Anaconda field staff completed surface water monitoring concurrently from March to July 2021 in order to cross-train Anaconda on preferred field methods. Anaconda completed the surface water monitoring program from August 2021 to present. Monitoring was conducted at the stations listed in **Table 1** from March 2020 to present and was completed in all four seasons.

Table 1: Surface Water Monitoring Summary

Station	Coordinates		Watercourse	Monitoring
	Northing	Easting		
SW-11-21	5004171	608085	Gold Brook	Water quality Water level
SW-12-21	5006262	607098	Gold Brook	Water quality Water level Flow
SW-13-21	5007224	607226	WC9	Water quality
SW-14-21	5007451	607678	WC14	Water quality Water level Flow
SW-15-21	5008865	610584	Ocean Lake	Water quality Water level
SW-16-21	5008180	606951	WC22	Water quality Water level Flow
SW-17-21	5008024	606351	WC20	Water quality Water level Flow
SW-18-21	5007536	605437	WC53	Water quality
SW-19-21	5007030	60569	WC86	Water quality
SW-20-21	5006727	606742	WC8	Water quality
SW-21-21	5008058	606990	Gold Brook Lake	Water level

Surface water monitoring stations were selected to capture all inputs into Gold Brook Lake and to provide geographic coverage within the PA. Stations were sited in the upstream extent of contributing watercourses in order to isolate potential impacts to Gold Brook Lake and remove the potential for influence from backflow from the lake. Stations SW-18-21, SW-19-21, and SW-20-21 were monitored for water quality only as their respective watercourses are expected to be ephemeral.

2.1 Flow Monitoring

2.1.1 Methodology

Nine monitoring events were conducted in 2021 between March 30th and December 6th. Discrete velocity measurements were monitored at four locations: SW-12-21, SW-14-21, SW-16-21, and SW-17-21. Velocity measurements were collected using a handheld acoustic Doppler velocity meter (SonTek FlowTracker2). A transect was established at each monitoring location perpendicular to the direction of flow. The width of the stream was divided into equally spaced intervals where velocity readings and water depth were measured. Velocities were measured at 60% of the depth below the water surface. A total flow was then calculated by computing the product of area and velocity using an average of the mean and mid flow calculation methods. QA/QC was conducted on all FlowTracker files.

Continuous water levels were monitored at seven locations: SW-11-21, SW-12-21, SW-14-21, SW-15-21, SW-16-21, SW-17-21, and SW-21-21. Staff gauges were installed at the seven monitoring locations and used for discrete surface water level measurements. In addition, continuous water level data was collected at 15-minute intervals using Solinst Levellogger (M5) transducers (loggers). The loggers were installed on March 31, 2021 and were removed on November 21, 2021 to prevent damage from freezing conditions. Logger data was downloaded during each surface monitoring event, if possible, and compensated for barometric pressure, which was collected on-site using a Solinst barologger. Continuous surface water levels were corrected using the discrete water levels collected during the monitoring event. Each staff gauge was geodetically surveyed to convert the continuous water level to a continuous water level elevation, with the exception of SW-15-21.

2.1.2 Results

Discrete flow and water elevation data is presented in **Table B.1** in **Appendix B**. Continuous water elevations are presented in the hydrographs within **Appendix B**. Manual water level and flow measurements were used to generate rating curves for stations SW-12-21, SW-14-21, SW-16-21, and SW-17-21. Continuous flow graphs produced from these rating curves are presented in **Appendix B**. Rating curves and continuous flow graphs will be continuously updated during on-going monitoring as more data is collected and the stage-discharge relationships are further defined.

The continuous and discrete water level data for each monitoring location are plotted and presented in **Appendix B**. All locations were plotted with daily precipitation data collected from the Collegeville Auto Environment Canada Weather Station (Climate ID: 8201001), located approximately 60 km northwest of the site.

The 2021 calculated flow measurements at the outlet of Gold Brook Lake (SW-12-21) ranged from 3 litres per second (L/s) on July 20, 2021 to 1,035 L/s on April 1, 2021. Flow measurements collected along WC14 (SW-14-21) ranged from 0 L/s on July 20, 2021 to 534 L/s on December 7, 2021. Flow measurements collected along WC22 (SW-16-21) ranged from 1 L/s on various dates to 893 L/s on December 7, 2021. Flow measurements collected in WC20 (SW-17-21) ranged from 1 L/s on July 20, 2021 to 626 L/s on December 7, 2021.

2.2 Surface Water Chemistry

Surface water quality samples were collected from ten locations upstream and downstream of Gold Brook Lake including Gold Brook, Gold Brook Lake, WC9, WC14, Ocean Lake, WC22, WC20, WC53, WC86, and WC8 (see **Figure 1**). Surface water samples were collected monthly from March 2021 to present to compile background quality data on the surface water in the proposed PA.

2.2.1 Methodology

Surface water samples were collected by grab sampling, which was conducted by dipping the sample container directly into the stream to collect surface water, unless the sample bottles contained preservatives. If the bottle contained preservatives, sterile unpreserved bottles were used to collect the sample. Samples were collected below the surface with the sample bottles completely submerged. This prevents floating debris from entering the sample bottles, which could result in unrepresentative analytical data. The water sample was then transferred to the appropriate preserved bottles.

Discrete measurements of field parameters were collected at the time of sampling and included: pH, conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), turbidity, total dissolved solids (TDS) and temperature. Discrete measurements were collected using a Horiba U52 handheld water quality meter which underwent calibration prior to each sampling event as per GHD's QA/QC protocol.

Samples were transferred to coolers with ice immediately after they were collected and maintained in cool storage until delivered to Bureau Veritas Laboratories (BV) in Bedford, Nova Scotia. The Chain-of-Custody (COC) form, which was supplied by the laboratory, was filled out with the sample, time, date, and location, and was signed by field staff before being relinquished to the receiving laboratory. The surface water samples were analyzed for general chemistry, total and dissolved metals, mercury, and methylmercury.

QA/QC protocols included the collection of field duplicate samples (10%). Field duplicates are incorporated as a blind method of evaluating analytical precision, field precision and sample homogeneity. One surface water field duplicate was collected on-site, during each monitoring event. During the March 2021 monitoring event, SWDUPA-21 was taken at the SW-18-21 location. During the May, June, July, August and September 2021 monitoring events, SW-DUP-A was taken at the SW-15-21 location. During the November 2021 monitoring event, SWDUPA was taken at the SW-12-21 location. During the December 2021 monitoring event, SW-DUP was taken at the SW-16-21 location. Laboratory certificate of analysis for surface water samples are provided in **Appendix C**. Detailed field notes supported with photographs from sampling locations have been collected and will be maintained for future reference.

2.2.2 Results

Monthly surface water quality samples were collected on March 30-April 1, May 20-21, June 21-22, July 20-21, August 19-20, September 22, October 22, November 21, and December 6, 2021. Surface water quality results were compared to the Canadian Council of Ministers of the Environment (CCME) Canadian Water Quality Guidelines (WQGs) for the Protection of Fresh Water Aquatic Life (FWAL) and the Nova Scotia Tier 1 Environmental Quality Standards (EQS) for Surface Water.

Surface water quality results, as well as the CCME and NS Tier 1 EQS guidelines are included in **Tables C.1, C.2, and C.3** in **Appendix C** and are summarized below.

Gold Brook

- Exceedances of the CCME FWAL and NS Tier 1 EQS guidelines for dissolved aluminum, dissolved arsenic, and dissolved iron were recorded at the downstream water quality monitoring station (SW-11-21) from April to December 2021. Dissolved zinc exceeded applicable guidelines at SW-11-21 in June, August, and October 2021.
- Total aluminum, total arsenic, and total iron exceeded applicable guidelines at SW-11-21 from April to December 2021. Total lead and total mercury exceeded CCME and NS Tier 1 EQS criteria in July 2021. Total zinc exceeded the applicable guidelines during the November sample event.
- pH in samples collected from SW-11-21 was lower than CCME criteria from April to December 2021.

Gold Brook Lake

- Exceedances of the applicable CCME and NS Tier 1 EQS guidelines of dissolved aluminum and dissolved arsenic were recorded at the lake outlet water quality monitoring station (SW-12-21) from March to December

2021. Exceedances of the applicable CCME and NS Tier 1 EQS guidelines of dissolved iron were recorded at each monthly monitoring event, with the exception of March and June 2021. In addition, an exceedance of dissolved lead was recorded in November 2021 at the SW-12-21 location.

- Exceedances of the CCME and NS Tier 1 EQS guidelines of total aluminum, total arsenic and total iron were recorded at the SW12 location from March to December 2021. Total lead exceeded the applicable guidelines in August and November (field sample duplicate) 2021. Total zinc also exceeded applicable guidelines during the November sample event.
- pH reported lower than the CCME range at location SW-12-21 from March to December 2021.

Ocean Lake

- Exceedances of the applicable CCME and NS Tier 1 EQS guidelines of dissolved aluminum were recorded at the Ocean Lake water quality monitoring station (SW-15-21) from March to December 2021. Dissolved cadmium exceeded applicable criteria in March 2021, and an exceedance of dissolved zinc was recorded in July 2021.
- Exceedances of the applicable CCME and NS Tier 1 EQS guidelines of total aluminum were recorded at the SW-15 21 location from March to December 2021. Total copper exceeded the CCME and NS Tier 1 guidelines in May 2021 (field sample duplicate).
- General chemistry parameter pH at SW-15-21 reported lower than the applicable CCME range from March to December 2021.

WC8

- Dissolved aluminum and dissolved iron exceeded the applicable CCME and NS Tier 1 EQS at the WC8 water quality monitoring station (SW-20-21) from March to December 2021. Exceedances of the applicable guidelines of dissolved arsenic were recorded at each monthly monitoring event, with the exception of March and December 2021. Dissolved lead recorded exceedances of the guidelines in July, August, September, and November 2021. Additionally, dissolved zinc and dissolved cadmium recorded exceedances in samples from August 2021, with dissolved zinc also exceeding guidelines in September 2021, the following month.
- Exceedances of the applicable CCME and NS Tier 1 EQS guidelines of total aluminum and total iron were recorded at the SW-20-21 location from April to December 2021. Exceedances of the applicable guidelines of total arsenic were recorded at each monthly monitoring event, with the exception of December 2021. Additionally, total lead recorded exceedances of the CCME and NS Tier 1 guidelines at each monthly monitoring event with the exception of March, May, June, and December 2021. One exceedance of total zinc was noted in November 2021.
- pH in SW-20-21 samples reported lower than the applicable CCME range at location from March to December 2021.

WC9

- WC9 water quality monitoring station (SW-13-21) reported exceedances of the applicable CCME and NS Tier 1 EQS guidelines of dissolved aluminum from March to December 2021. Dissolved iron samples exceeded applicable guidelines at each monthly monitoring event with the exception of March and December 2021. Dissolved arsenic exceeded the CCME and NS Tier 1 guidelines from samples in SW-13-21 in July and September 2021, and dissolved lead was reported as an exceedance in August and September 2021.
- Exceedances of the applicable CCME and NS Tier 1 EQS guidelines of total aluminum were recorded at the SW-13-21 location from March to December 2021. Exceedances of the applicable guidelines of total iron were recorded at each monthly monitoring event, with the exception of March 2021. Total arsenic and total lead reported an exceedance of the CCME and NS Tier 1 guidelines in July and September 2021, with total lead additionally exceeding in August 2021. One zinc exceedance was noted in November 2021.
- Samples from SW-13-21 reported lower than the applicable CCME range for pH from March to December 2021.

WC14

- Exceedances of the applicable CCME and NS Tier 1 EQS guidelines of dissolved aluminum were recorded at the WC14 water quality monitoring station (SW-14-21) from March to December 2021. Dissolved iron exceeded the applicable guidelines at each monthly monitoring event with the exception of March, May, and December 2021. Dissolved lead and dissolved zinc recorded exceedances of the applicable CCME and NS Tier 1 guidelines in August 2021, with dissolved zinc additionally reporting an exceedance in October 2021.
- Total aluminum exceeded the applicable CCME and NS Tier 1 EQS guidelines at the SW-14-21 location from March to December 2021. Exceedances of the applicable guidelines of total iron were recorded at each monthly monitoring event, with the exception of March, May, and December 2021. Additionally, total lead exceeded guidelines in August and September 2021.
- pH reported lower than the applicable CCME range at location SW-14-21 from March to December 2021.

WC20

- Dissolved aluminum reported exceedances of the applicable CCME and NS Tier 1 EQS guidelines of at the WC20 water quality monitoring station (SW-17-21) from March to December 2021. Exceedances of the applicable guidelines of dissolved iron were recorded at each monthly monitoring event, with the exception of March, May, and December 2021. Dissolved lead exceeded CCME and NS Tier 1 guidelines in August, September, and November 2021. Additionally, dissolved zinc exceeded guidelines in July and October 2021, and dissolved cadmium reported an exceedance in August 2021.
- Exceedances of the applicable CCME and NS Tier 1 EQS guidelines of total aluminum were recorded at the SW-17-21 location from March to December 2021. Exceedances of the applicable guidelines of total iron were recorded at each monthly monitoring event, with the exception of March and December 2021. Total lead recorded exceedances of the applicable guidelines in August, September, and October 2021. One total zinc exceedance was noted in November 2021.
- pH, reported lower than the applicable CCME range at location SW-17-21 from March to December 2021.

WC22

- Exceedances of the applicable CCME and NS Tier 1 EQS guidelines of dissolved aluminum were recorded at the WC22 water quality monitoring station (SW-16-21) from March to December 2021. Dissolved iron recorded exceedances of the applicable guidelines at each monthly monitoring event with the exception of March, May, November, and December 2021.
- Exceedances of the applicable CCME and NS Tier 1 EQS guidelines of total aluminum were recorded at the SW-16-21 location from March to December 2021. Exceedances of the applicable CCME guidelines for total iron were recorded at each monthly monitoring event, with the exception of March, May, and December 2021. Total lead exceeded CCME and NS Tier 1 guidelines in August 2021. One exceedance for total zinc was noted in November 2021.
- pH in SW-16-21 samples reported lower than the applicable CCME range from March to December 2021.

WC53

- Exceedances of the applicable CCME and NS Tier 1 EQS guidelines of dissolved aluminum were recorded at the WC53 water quality monitoring station (SW-18-21) from March to December 2021. Applicable guidelines of dissolved iron were exceeded at each monthly monitoring event, with the exception of March 2021. Dissolved lead and dissolved zinc reported exceedances of the applicable guidelines in July, August and September 2021. An additional dissolved zinc exceedance was also noted in June 2021. Dissolved mercury reported an exceedance of the CCME and NS Tier 1 guidelines in September 2021. Exceedances of the applicable CCME guidelines of dissolved manganese were recorded at each monthly monitoring event, with the exception of March, November, and December 2021. Additionally, the August and September 2021 recordings exceeded the

applicable NS Tier 1 EQS guidelines. One exceedance of the applicable guidelines was noted for dissolved arsenic in July 2021.

- Exceedances of the applicable CCME and NS Tier 1 EQS guidelines of total aluminum and total iron were recorded at the SW-18-21 location from March to December 2021. Exceedances of the applicable guidelines of total lead were recorded at each monthly monitoring event, with the exception of March, May, October, and December 2021. Total manganese samples reported exceedances of the CCME guidelines at each monthly monitoring event with the exception of March, November, and December 2021. Additionally, the June, August, and September 2021 recordings exceeded the applicable NS Tier 1 EQS guidelines. Total arsenic reported exceedances in the CCME and NS Tier 1 guidelines in June, July, August, and September 2021. Total zinc exceeded applicable guidelines in July, August, September and November 2021. Exceedances of the applicable CCME and NS Tier 1 EQS guidelines of total mercury were recorded in June and August 2021, with methyl mercury exceeding guidelines in August and September 2021. Total cobalt exceeded the applicable NS Tier 1 EQS guidelines for total cobalt in July, August, and September 2021. Total copper exceeded the CCME and NS Tier 1 guidelines in August 2021. Total cobalt exceeded the NS Tier 1 EQS guidelines, but not the CCME criteria in July, August and September 2021.
- pH in samples collected from SW-11-21 was lower than CCME criteria from April to December 2021.

WC86

- CCME and NS Tier 1 EQS guidelines of dissolved aluminum and dissolved iron were exceeded at the WC86 water quality monitoring station (SW-19-21) from May to December 2021. Dissolved lead exceedances were recorded at each monthly monitoring event, with the exception of March, May, and December 2021. Dissolved arsenic and dissolved zinc reported exceedances of the applicable guidelines in July 2021, with dissolved zinc also exceeding in June 2021. An exceedance of the applicable CCME and NS Tier 1 EQS guidelines of dissolved mercury was recorded in November 2021.
- Exceedances of the applicable CCME and NS Tier 1 EQS guidelines of total aluminum and total iron were recorded at the SW-19-21 location from March to December 2021. Exceedances of the applicable criteria of total lead were recorded at each monthly monitoring event, with the exception of March 2021. Samples reported from the May and July 2021 monitoring events reported exceedances of the applicable guidelines in total mercury, total zinc, total arsenic and total copper. Total zinc also reported an exceedance in November 2021, and total mercury reported an additional exceedance in December 2021. Exceedances of the applicable CCME and NS Tier 1 EQS guidelines of methyl mercury were recorded in May, August, and October 2021. An exceedance of the applicable CCME guidelines for total cadmium, as well as total manganese was recorded in May 2021, and an exceedance of the applicable NS Tier 1 EQS guidelines for total cobalt was recorded in May 2021.
- pH in SW-19-21 samples reported lower than the applicable CCME range at location from March to December 2021.

QA/QC

QA/QC protocols included the collection of field duplicate samples (10%) during each monitoring event. Nine field duplicates were collected in 2021 and analyzed for general chemistry, dissolved metals, and total metals. The 2021 field duplicates were collected from three locations, SW-18-21, SW-15-21, and SW-12-21. All 2021 duplicate samples have a relative percent difference (RPD) from the original sample that ranges from 0 to 70%. 91/92 constituents analyzed have a RPD of less than 40%.

2.3 Sediment Chemistry

Twelve sediment samples and one field duplicate were collected from various upstream and downstream locations from Stream Gold Brook, Gold Brook Lake and Seal Harbour Lake (**Figure 2**). Sediment quality samples were collected on 31 August – 2 September 2021 to provide background quality data on the sediment in the proposed operational area.

2.3.1 Methodology

Sediment samples were collected from WC22 (RA-SED-1), Gold Brook Lake (RA-SED-2 through RA-SED-6), and Gold Brook (RA-SED-7 through RA-SED-12). Sediment samples were collected from 0 to 0.20 m below the sediment-water interface using a petite-ponar grab-sampler deployed from a boat and/or a stainless-steel trowel depending on sediment location and placed in laboratory-supplied containers.

During sample collection, new gloves (e.g., disposable nitrile gloves) were worn for the collection of each sample. Between sample locations, the petite-ponar grab sampler and trowel were thoroughly cleaned to eliminate cross contamination. Sediment samples were collected commencing with the most downstream sample to avoid sediment interference with other downstream samples. Collected samples were placed in coolers with ice/cold packs until delivered to BV Labs.

2.3.2 Results

Analytical results and laboratory certificates of analysis for sediment are provided in **Appendix D** and summarized in the sections below.

Metals

Baseline metals concentrations in sediment are provided in **Table D.1 (Appendix D)**. For reference, metals were compared to the Nova Scotia Tier 1 EQS for Sediment (freshwater).

Antimony, iron, nickel, and silver exceeded applicable NS Tier 1 EQS in samples RA-SED-7 and RA-SED-8. Samples from locations RA-SED-1, RA-SED-2, RA-SED-5, RA-SED-6, RA-SED-7, RA-SED-8, RA-SED-9, RA-SED-10, RA-SED-11, and RA-SED-12 exceeded the NS Tier 1 EQS guidelines for arsenic. Location RA-SED-8 exceeded applicable criteria for lead. Mercury exceeded applicable criteria at RA-SED-2, RA-SED-4, RA-SED-5, RA-SED-6, RA-SED-7, RA-SED-8, RA-SED-9, RA-SED-10, and RA-SED-11. Locations RA-SED-8 and RA-SED-12 exceeded the NS Tier 1 EQS for selenium. All other metals concentrations were less than the applicable guidelines.

QA/QC

QA/QC protocols included the collection of field duplicate samples (10%) during each monitoring event. One field duplicate (RA-SED-DUP, field duplicate of RA-SED-12) was collected in September 2021 and analyzed for total metals. The 2021 field duplicate has RPDs from the original sample that range from 0.0-9.52%.

2.4 Industrial Approval Monitoring

As part of the Industrial Approval (Approval No. 2018-101368-02) effective August 5, 2020, groundwater and surface water monitoring has been completed since August 2018. The seven surface water monitoring stations include: Beaver Pond Inflow (#2), Beaver Pond Outflow (#3), Goldbrook Lake (#4), Boston-Richardson Shaft (#5), Settling Pond Outflow (#6), Gold Brook Creek (#7), and Drainage from Ore Stockpile (#9) (**Figure 3**). Groundwater monitoring stations include Domestic Well (#8), MW17-1, MW17-2, and MW17-3.

Surface water monitoring requirements include monthly static water level measurements and quarterly water quality monitoring at all seven locations. Additionally, at the Settling Pond Outflow station, monthly static level measurements, flow measurements and water quality monitoring are required.

Groundwater monitoring included monthly water level measurements and quarterly water quality monitoring.

Water quality monitoring included General Chemistry, Metals, TSS and pH analyses compared to the 95th percentile of the statistically analyzed baseline data. Analytical results for the monitoring are provided in **Appendix E**.

3. Conclusion

GHD was retained by Anaconda to complete a baseline surface water and sediment monitoring program for the proposed Goldboro Gold Project located in Guysborough County, Nova Scotia. This report is provided as part of the technical and permitting services in support of a Provincial Class 1 EARD submission to NSECC for the Project. Baseline surface water monitoring for the Project is ongoing.

Continuous and discrete water levels were monitored at seven locations: SW-11-21, SW-12-21, SW-14-21, SW-15-21, SW-16-21, SW-17-21, and SW-21-21. Flows were monitored at four locations: SW-12-21, SW-14-21, SW-16-21, and SW-17-21. Surface water quality samples were collected from 10 locations across Gold Brook, Gold Brook Lake, Ocean Lake, and seven unnamed watercourses. Surface water samples were collected monthly from March 2021 to present from: SW-11-21, SW-12-21, SW-13-21, SW-14-21, SW-15-21, SW-16-21, SW-17-21, SW-18-21, SW-19-21, and SW-20-21. Surface water monitoring has also been completed within the PA since August 2018 as part of Industrial Approval No. 2018-101368-02.

Sediment samples were collected from 12 locations upstream and downstream of Gold Brook, Gold Brook Lake, and Seal Harbour Lake. Sediment samples were collected on from August 31 to September 2, 2021 to provide background quality data.

4. References

- Canadian Council of Ministers of the Environment (CCME). 2021. Canadian Environmental Quality Guidelines. Retrieved from: https://www.ccme.ca/en/resources/canadian_environmental_quality_guidelines/index.html
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5. Limitations

This report has been prepared and the work referred to in this report has been undertaken by GHD for Anaconda Mining Inc. It is intended for the sole and exclusive use of Anaconda Mining Inc., its affiliated companies and partners and their respective insurers, agents, employees and advisors (collectively, “Anaconda Mining Inc.”). Any use, reliance on or decision made by any person other than Anaconda Mining Inc. based on this report is the sole responsibility of such other person. Anaconda Mining Inc. and GHD make no representation of warranty to any other person with regards to this report and the work referred to in this report and they accept no duty of care to any other person or any other liability of responsibility whatsoever for any losses, expenses, damages, fines, penalties or other harm that may be suffered or incurred by any other person as a result of the use of, reliance on, any decision made or any action taken based on this report or the work referred to in this report.

The investigation undertaken by GHD with respect to this report and any conclusions or recommendations made in this report reflect GHD’s judgement based on the site conditions observed at the time of the site inspection on the date(s) set out in this report and on the information examined at the time of the preparation of this report. This report

has been prepared for specific application to the site and it is based, in part, upon visual observation at the site, subsurface investigations at discrete locations and depths, and specific analysis of specific chemical parameters and materials during a specific time interval, all as described in this report. Unless otherwise stated, the findings cannot be extended to previous or future site conditions, portions of the site which were unavailable for direct investigation, subsurface locations which were not investigated directly, or chemical parameters, materials or analysis where were not addressed.

If site conditions or applicable standards change, or if any additional information becomes available at a future date, modifications to the findings, conclusions, and recommendations in this report may be necessary.

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6. Closure

We trust this submission meets your request, however if you have any questions, please contact the undersigned at your convenience.

All of which is respectfully submitted,

GHD

A handwritten signature in black ink, appearing to read "G. Merkley".

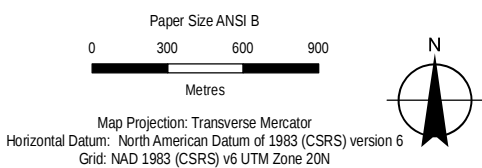
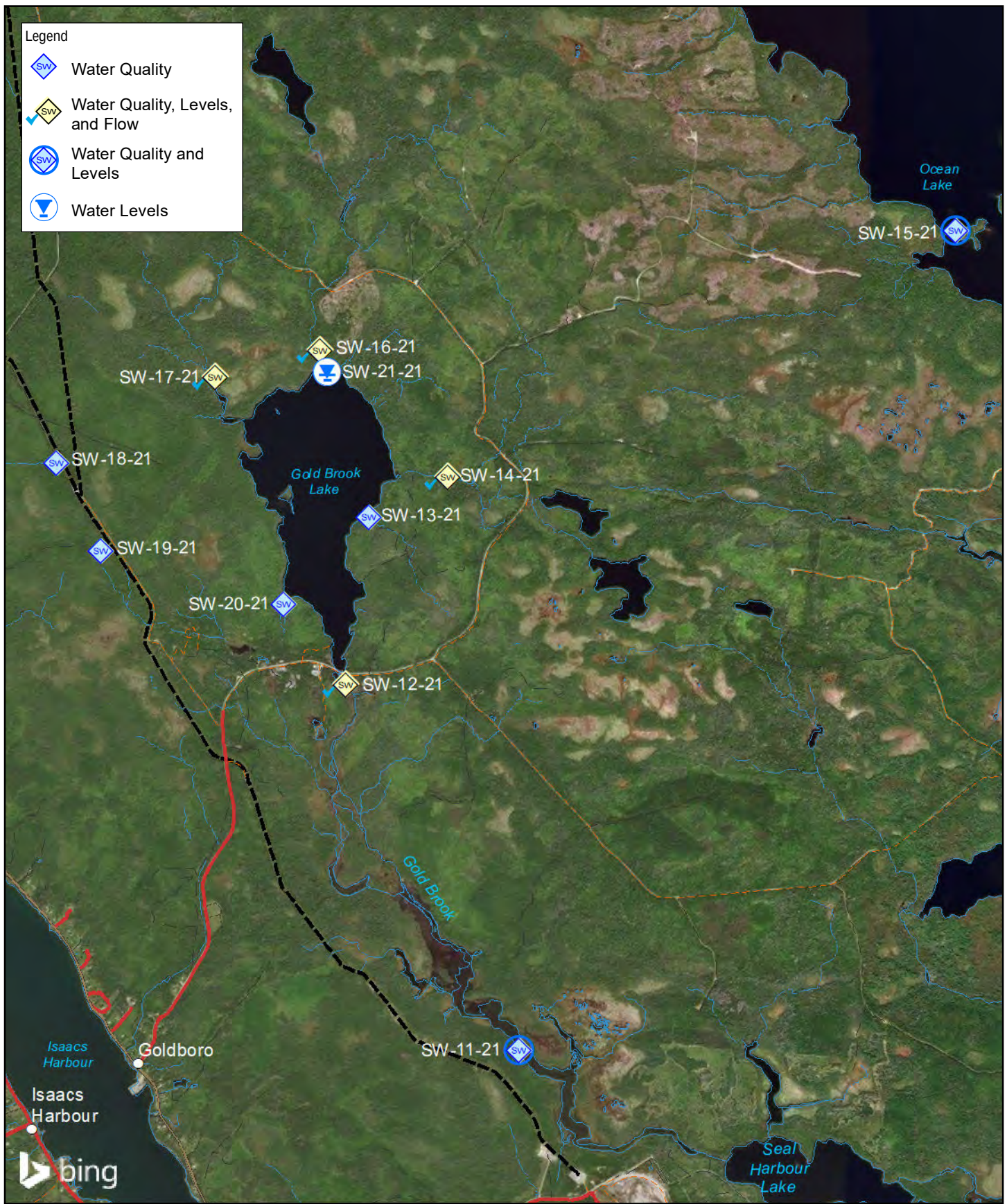
Glen Merkley, P.Eng.
Intermediate Environmental Engineer

A handwritten signature in black ink, appearing to read "Andrew Betts".

Andrew Betts, MASc, P.Eng
Senior Water Resources Engineer

Appendix A

Figures

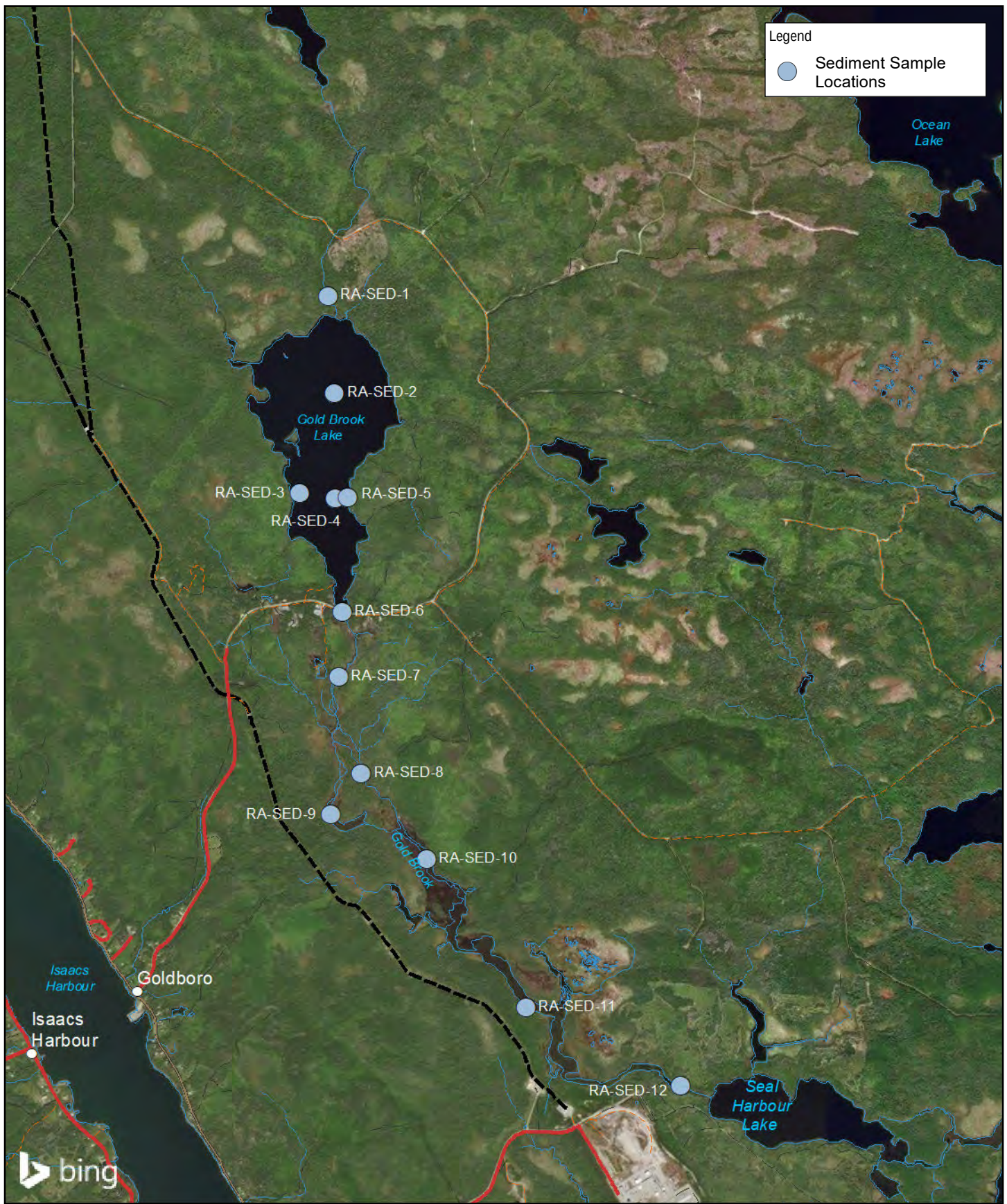


ANACONDA MINING INC
GOLDBORO GOLD PROJECT
2021 SURFACE WATER MONITORING REPORT

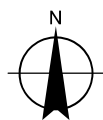
**SURFACE WATER
MONITORING LOCATIONS**

Project No. 11222385
Revision No. -
Date 09/02/2022

FIGURE 1



Paper Size ANSI B
0 250 500 750
Metres

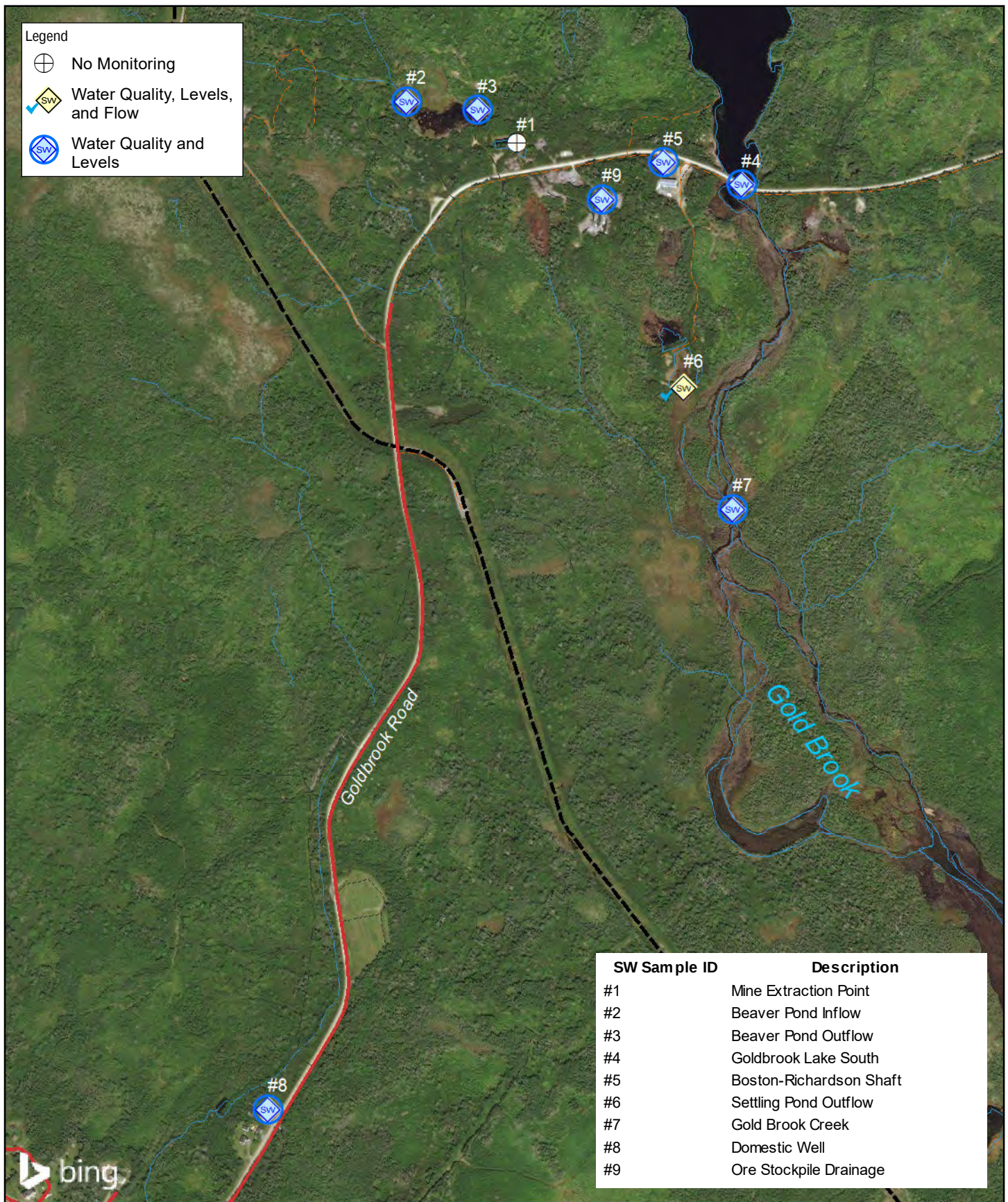


Map Projection: Transverse Mercator
Horizontal Datum: North American 1983 CSRS
Grid: NAD 1983 CSRS MTM 4

ANACONDA MINING INC
GOLDBORO GOLD PROJECT
2021 SURFACE WATER MONITORING REPORT
**SEDIMENT
SAMPLE LOCATIONS**

Project No. 11222385
Revision No. -
Date 09/02/2022

FIGURE 2



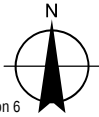
Legend

-  No Monitoring
-  Water Quality, Levels, and Flow
-  Water Quality and Levels

SW Sample ID	Description
#1	Mine Extraction Point
#2	Beaver Pond Inflow
#3	Beaver Pond Outflow
#4	Goldbrook Lake South
#5	Boston-Richardson Shaft
#6	Settling Pond Outflow
#7	Gold Brook Creek
#8	Domestic Well
#9	Ore Stockpile Drainage

Paper Size ANSI B
0 100 200 300
Metres

Map Projection: Transverse Mercator
Horizontal Datum: North American Datum of 1983 (CSRS) version 6
Grid: NAD 1983 (CSRS) v6 UTM Zone 20N




ANACONDA MINING INC
GOLDBORO GOLD PROJECT
2021 SURFACE WATER MONITORING REPORT

**IA SURFACE WATER
MONITORING LOCATIONS**

Project No. 11222385
Revision No. -
Date 25/02/2022

FIGURE 3

Appendix B

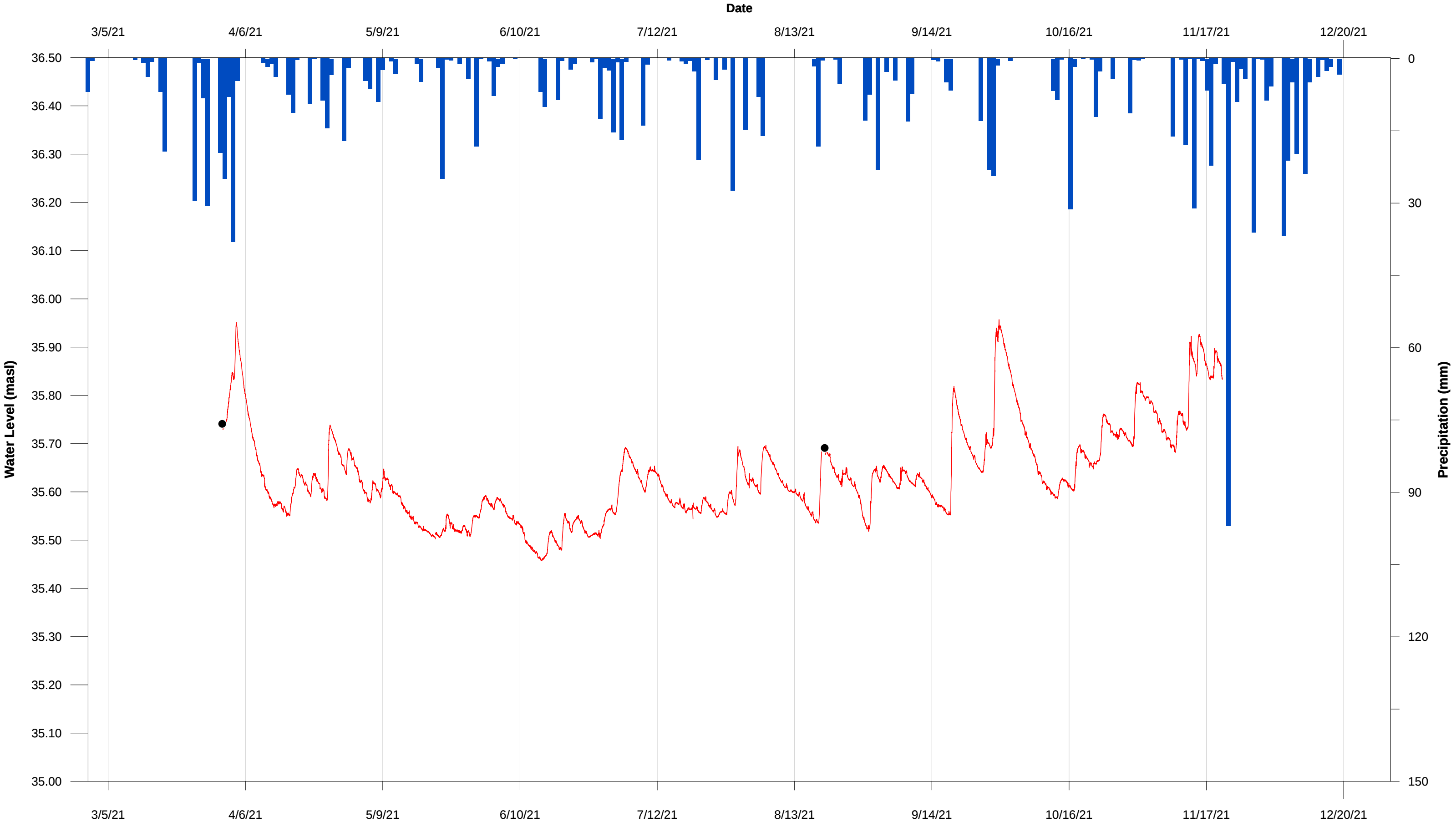
Surface Water Quantity Data

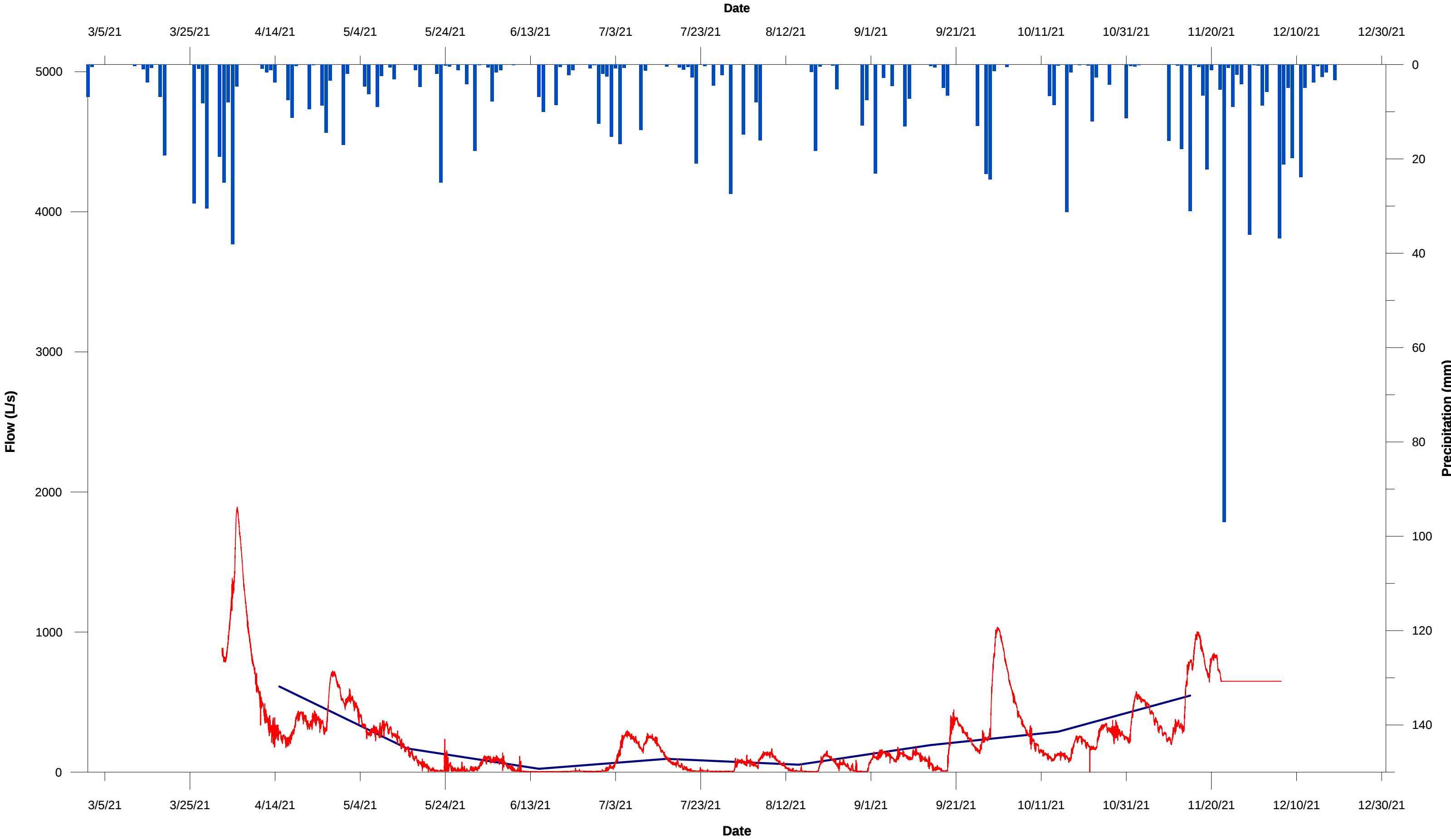
Stream Water Levels and Flows
Goldboro Gold Project, Guysborough County, NS

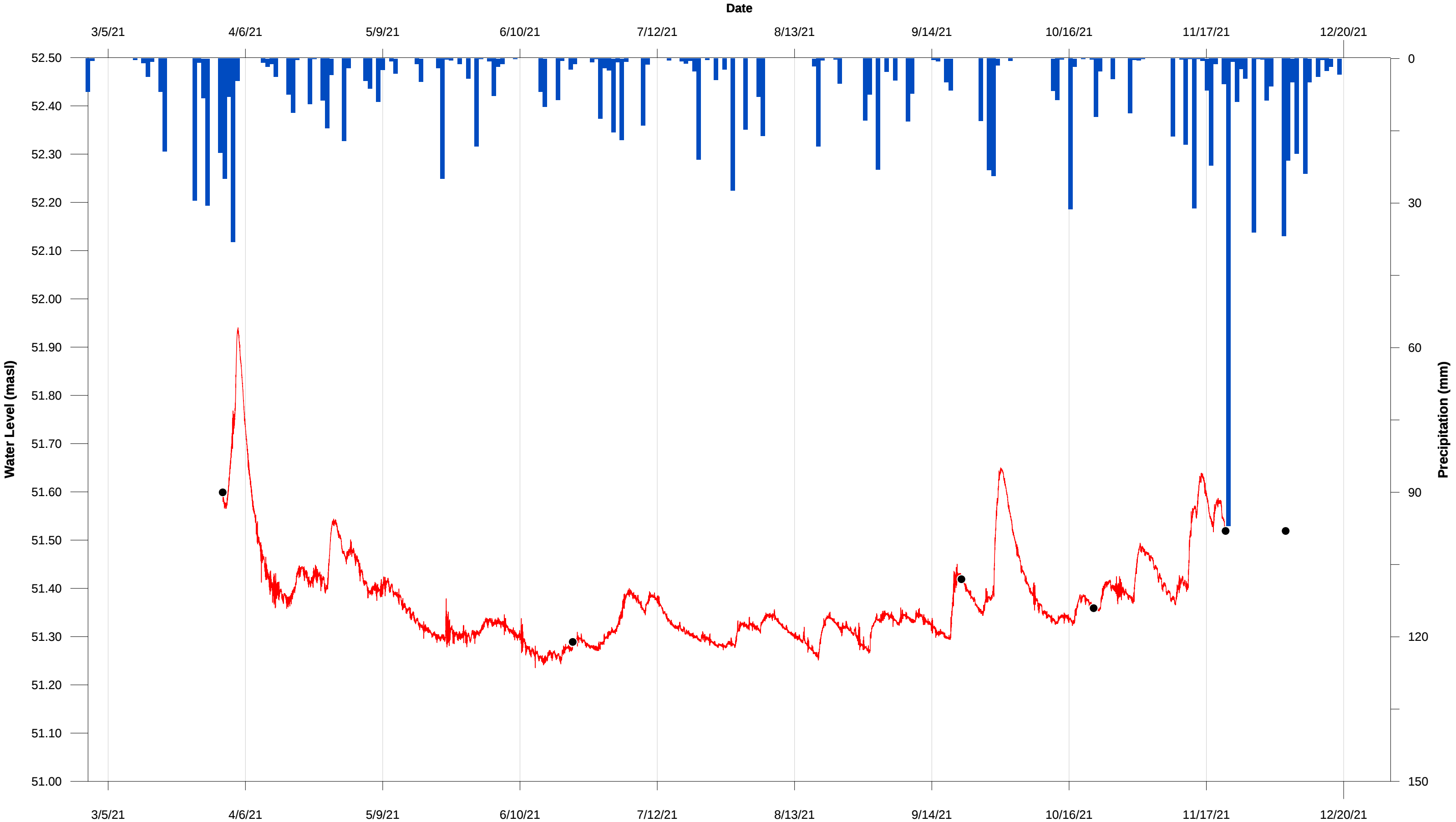
Station	Date	Flow (L/s)	Water Level (masl)	Weather Conditions ¹
SW12	4/1/2021 ⁽²⁾	1035	51.60	19.6 mm of precipitation recorded April 1, 2021. 88.7 mm of precipitation recorded in preceding 7 days.
	20-May-21	12	51.31	0 mm of precipitation recorded May 20, 2021. 6.0 mm of precipitation recorded in preceding 7 days.
	22-Jun-21	5	51.29	0 mm of precipitation recorded June 20, 2021. 26.0 mm of precipitation recorded in preceding 7 days.
	20-Jul-21	3	51.30	1.2 mm of precipitation recorded July 20, 2021. 10.9 mm of precipitation recorded in preceding 7 days.
	19-Aug-21	5	51.29	21.5 mm of precipitation recorded Aug 19, 2021. 1.7 mm of precipitation recorded in preceding 7 days.
	21-Sep-21	338	51.42	0 mm of precipitation recorded Sept 21, 2021. 10.2 mm of precipitation recorded in preceding 7 days.
	21-Oct-21	180	51.36	0.2 mm of precipitation recorded Oct 21, 2021. 50.5 mm of precipitation recorded in preceding 7 days.
	21-Nov-21	493	51.52	0 mm of precipitation recorded Nov 21, 2021. 65.2 mm of precipitation recorded in preceding 7 days.
	7-Dec-21	535	51.52	0 mm of precipitation recorded Dec 21, 2021. 9.0 mm of precipitation recorded in preceding 7 days.
SW14	30-Mar-21	279	62.38	19.6 mm of precipitation recorded April 1, 2021. 88.7 mm of precipitation recorded in preceding 7 days.
	20-May-21	1	62.11	0 mm of precipitation recorded May 20, 2021. 6.0 mm of precipitation recorded in preceding 7 days.
	21-Jun-21	1	62.13	0 mm of precipitation recorded June 20, 2021. 26.0 mm of precipitation recorded in preceding 7 days.
	20-Jul-21	0	62.15	1.2 mm of precipitation recorded July 20, 2021. 10.9 mm of precipitation recorded in preceding 7 days.
	19-Aug-21	65	62.25	21.5 mm of precipitation recorded Aug 19, 2021. 1.7 mm of precipitation recorded in preceding 7 days.
	21-Sep-21	49	62.23	0 mm of precipitation recorded Sept 21, 2021. 10.2 mm of precipitation recorded in preceding 7 days.
	21-Oct-21	17	62.20	0.2 mm of precipitation recorded Oct 21, 2021. 50.5 mm of precipitation recorded in preceding 7 days.
	21-Nov-21	42	62.23	0 mm of precipitation recorded Nov 21, 2021. 65.2 mm of precipitation recorded in preceding 7 days.
	7-Dec-21	534	-	0 mm of precipitation recorded Dec 21, 2021. 9.0 mm of precipitation recorded in preceding 7 days.
SW16	31-Mar-21	194	52.04	19.6 mm of precipitation recorded April 1, 2021. 88.7 mm of precipitation recorded in preceding 7 days.
	20-May-21	1	51.82	0 mm of precipitation recorded May 20, 2021. 6.0 mm of precipitation recorded in preceding 7 days.
	21-Jun-21	2	51.77	0 mm of precipitation recorded June 20, 2021. 26.0 mm of precipitation recorded in preceding 7 days.
	20-Jul-21	1	51.74	1.2 mm of precipitation recorded July 20, 2021. 10.9 mm of precipitation recorded in preceding 7 days.
	19-Aug-21	325	51.89	21.5 mm of precipitation recorded Aug 19, 2021. 1.7 mm of precipitation recorded in preceding 7 days.
	21-Sep-21	167	51.81	0 mm of precipitation recorded Sept 21, 2021. 10.2 mm of precipitation recorded in preceding 7 days.
	21-Oct-21	112	51.80	0.2 mm of precipitation recorded Oct 21, 2021. 50.5 mm of precipitation recorded in preceding 7 days.
	21-Nov-21	125	51.79	0 mm of precipitation recorded Nov 21, 2021. 65.2 mm of precipitation recorded in preceding 7 days.
	7-Dec-21	893	-	0 mm of precipitation recorded Dec 21, 2021. 9.0 mm of precipitation recorded in preceding 7 days.
SW17	31-Mar-21	129	51.12	19.6 mm of precipitation recorded April 1, 2021. 88.7 mm of precipitation recorded in preceding 7 days.
	20-May-21	3	51.07	0 mm of precipitation recorded May 20, 2021. 6.0 mm of precipitation recorded in preceding 7 days.
	21-Jun-21	2	51.07	0 mm of precipitation recorded June 20, 2021. 26.0 mm of precipitation recorded in preceding 7 days.
	20-Jul-21	1	50.98	1.2 mm of precipitation recorded July 20, 2021. 10.9 mm of precipitation recorded in preceding 7 days.
	19-Aug-21	341	51.07	21.5 mm of precipitation recorded Aug 19, 2021. 1.7 mm of precipitation recorded in preceding 7 days.
	21-Sep-21	306	51.03	0 mm of precipitation recorded Sept 21, 2021. 10.2 mm of precipitation recorded in preceding 7 days.
	21-Oct-21	243	51.01	0.2 mm of precipitation recorded Oct 21, 2021. 50.5 mm of precipitation recorded in preceding 7 days.
	21-Nov-21	83	51.08	0 mm of precipitation recorded Nov 21, 2021. 65.2 mm of precipitation recorded in preceding 7 days.
	7-Dec-21	626	-	0 mm of precipitation recorded Dec 21, 2021. 9.0 mm of precipitation recorded in preceding 7 days.

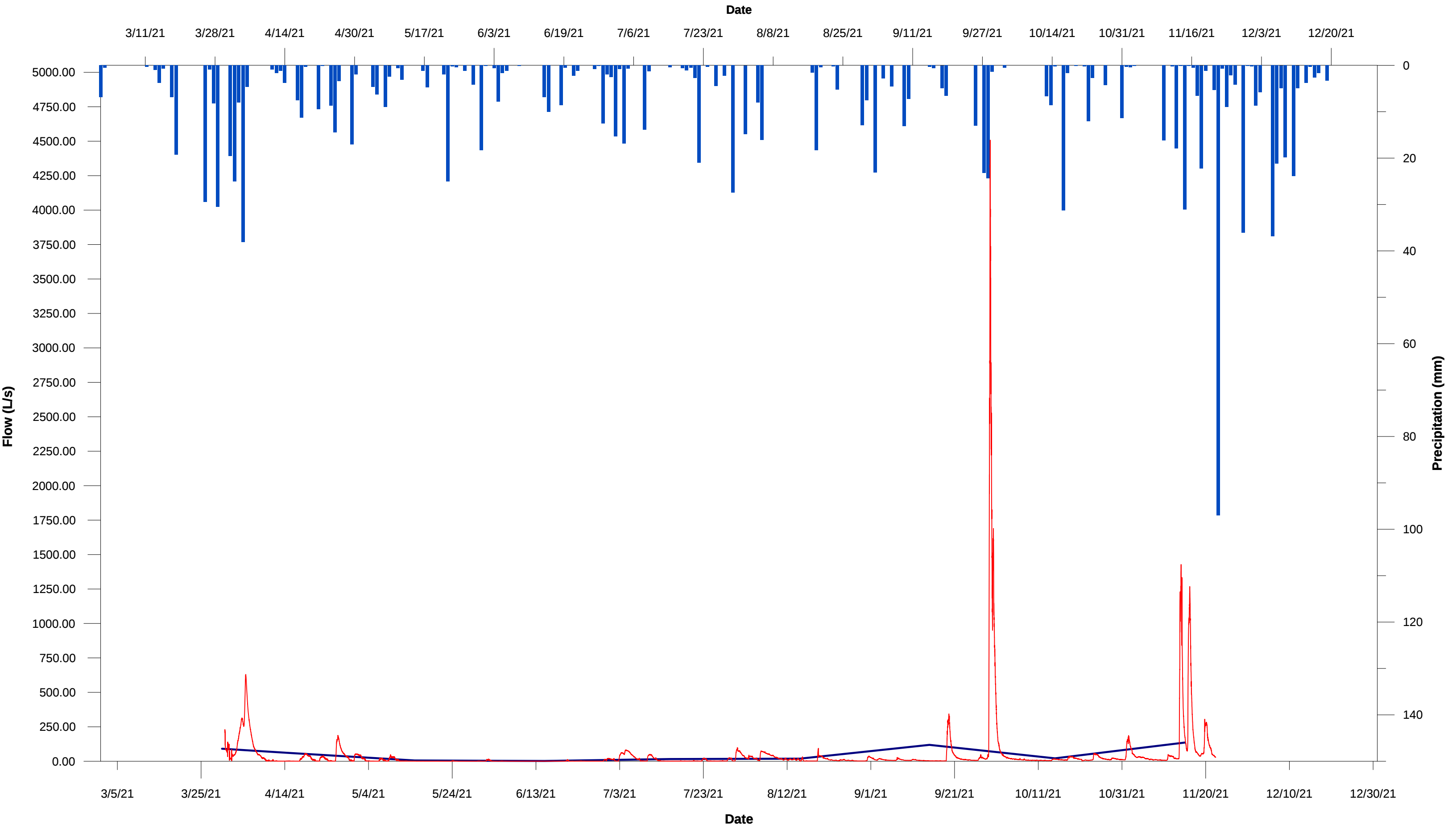
Notes:

1. Precipitation data recorded at the ECCC Weather Station at Collegeville Auto (Climate ID: 8201001).
2. April 1, 2021 flows were monitored at three culverts during high flow conditions. Subsequent events were completed downstream of the culverts due to low flow



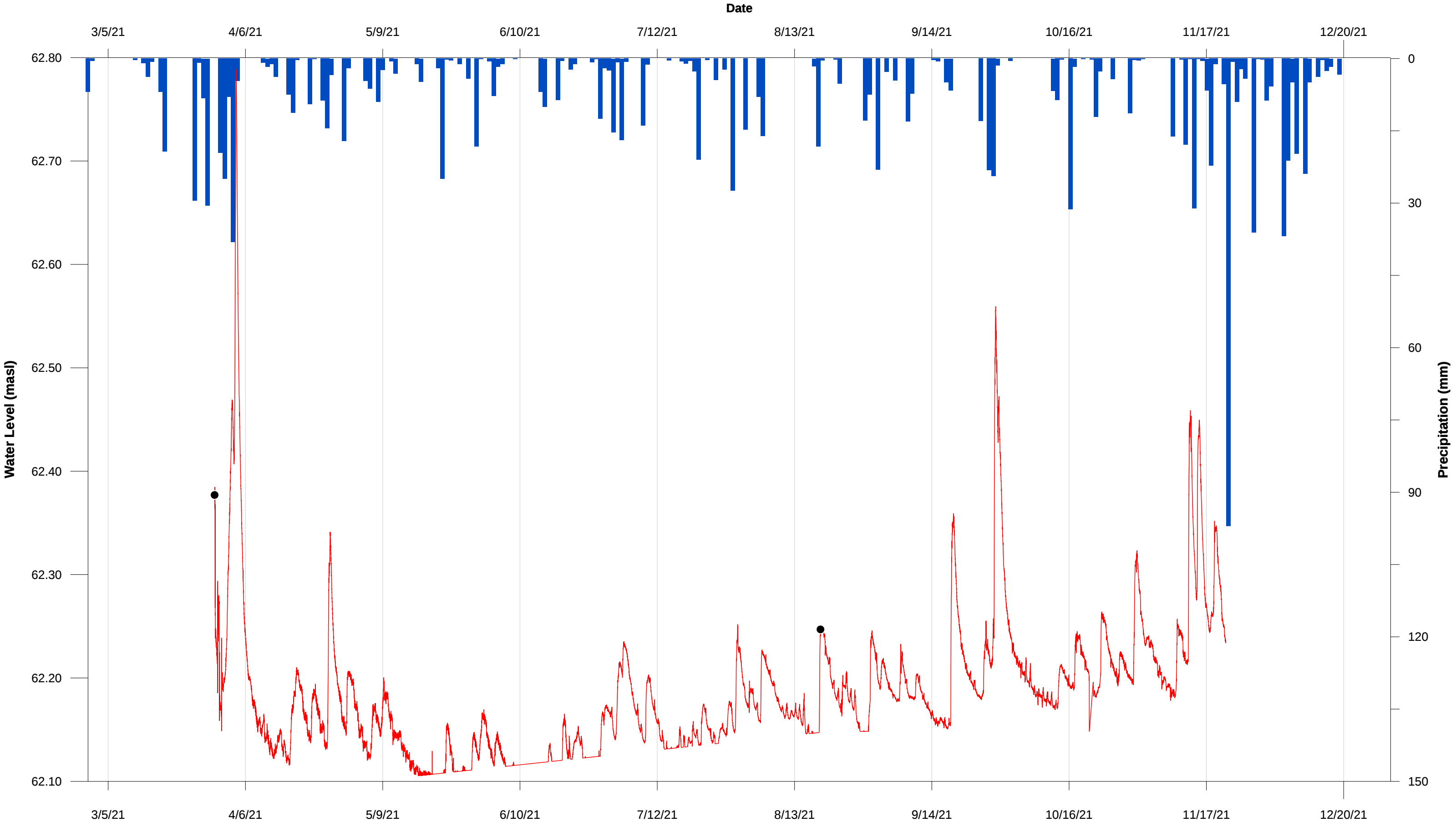


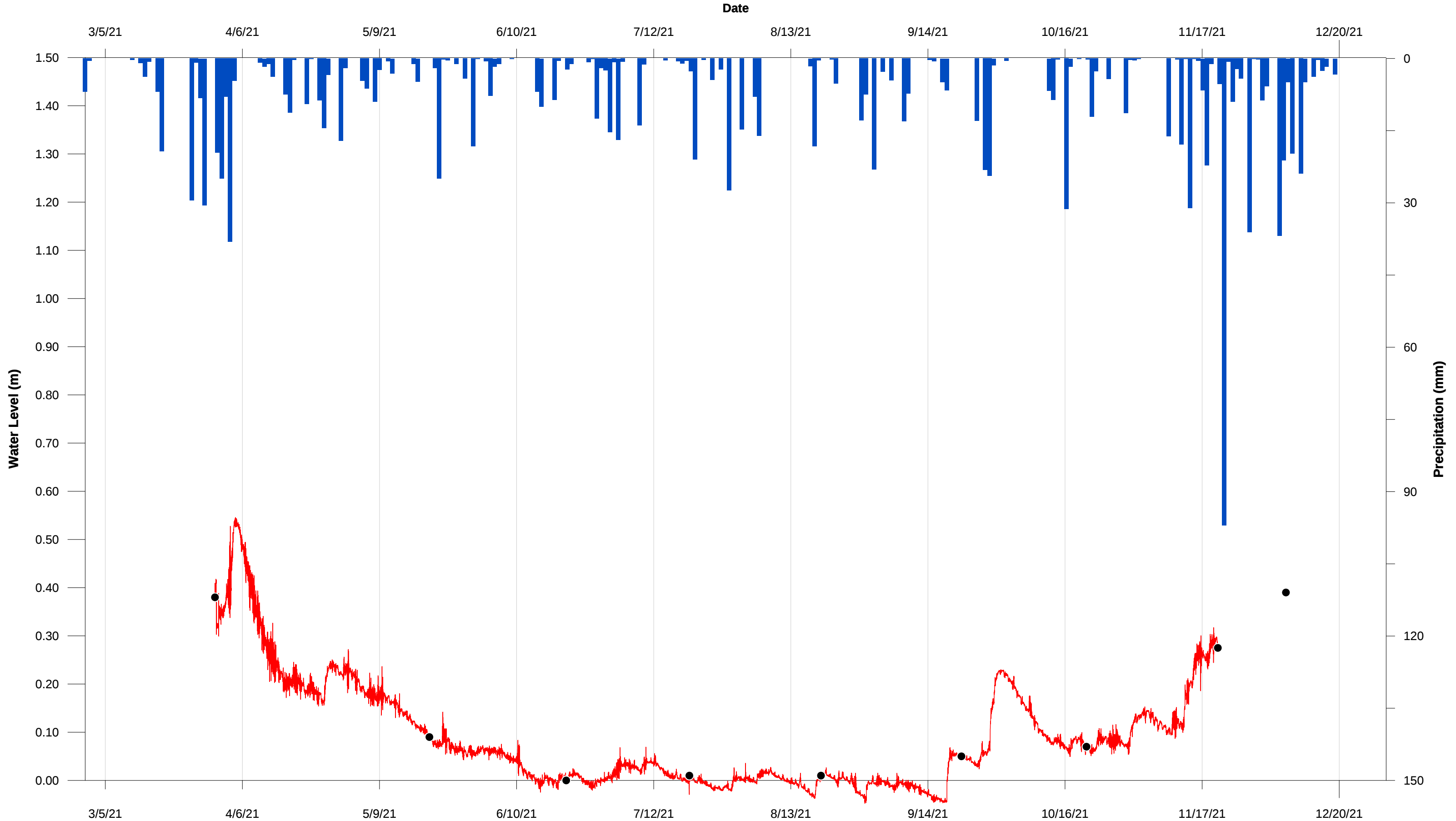




Precipitation (Collegeville Auto)
Continuous Streamflow
Monthly Average Streamflow

SW14
2021 Continous Flows
Goldboro Gold Mine Project
Anaconda Mining Inc.
Goldboro, Nova Scotia

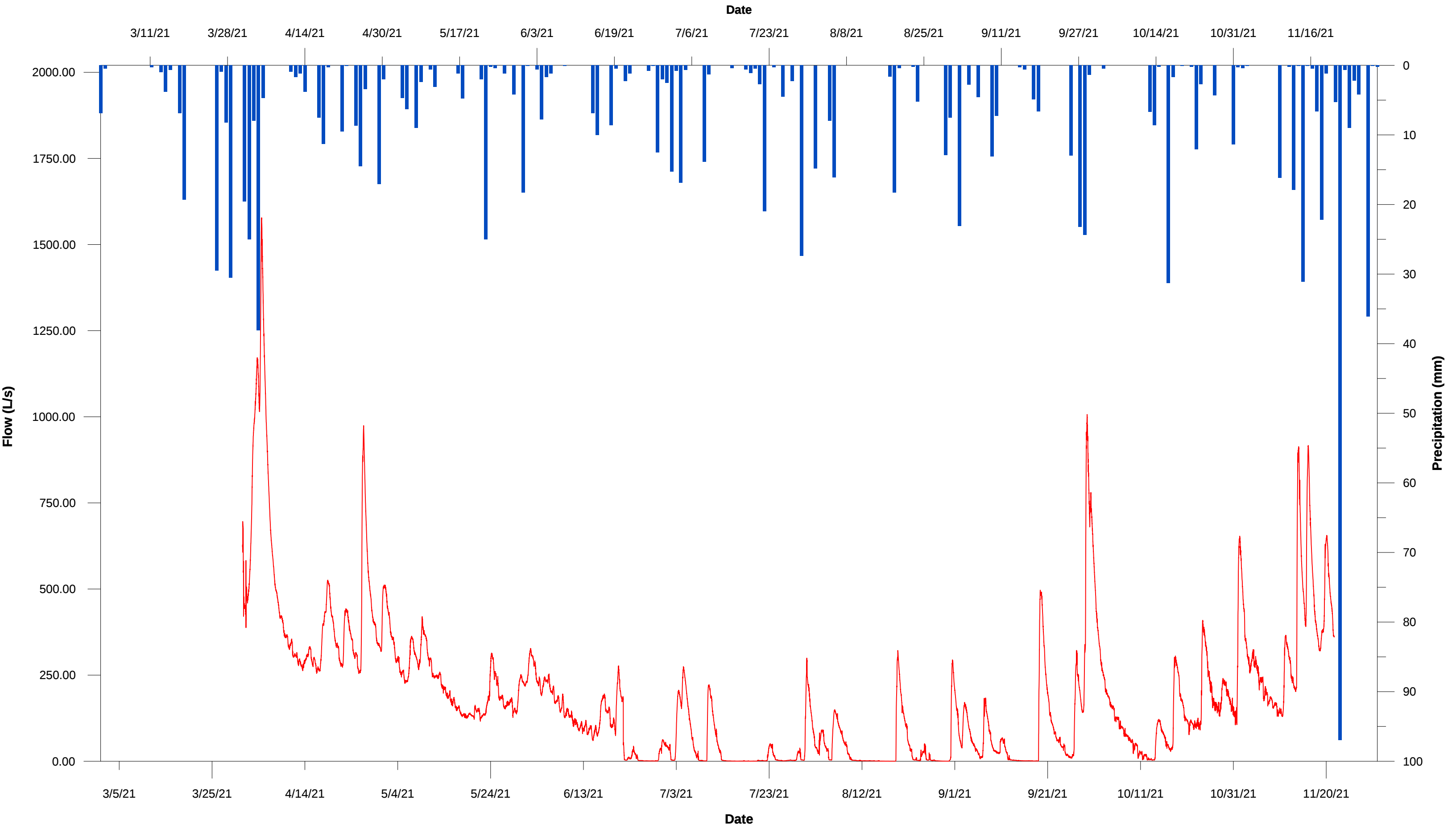




Notes:
- Benchmark elevation not measured.

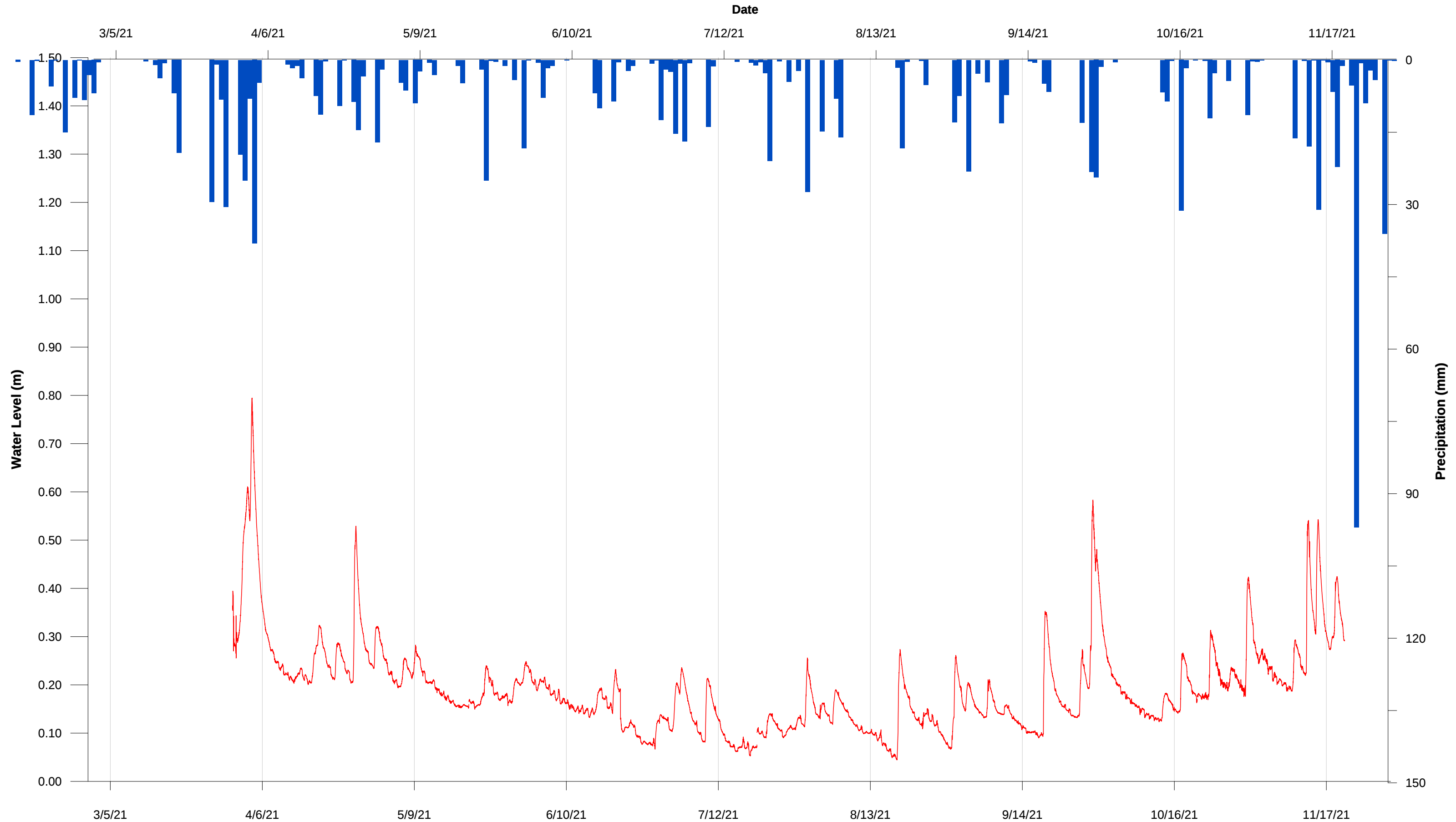
■ Precipitation (Collegeville Auto)
— Continuous Water Level
● Manual Water Level

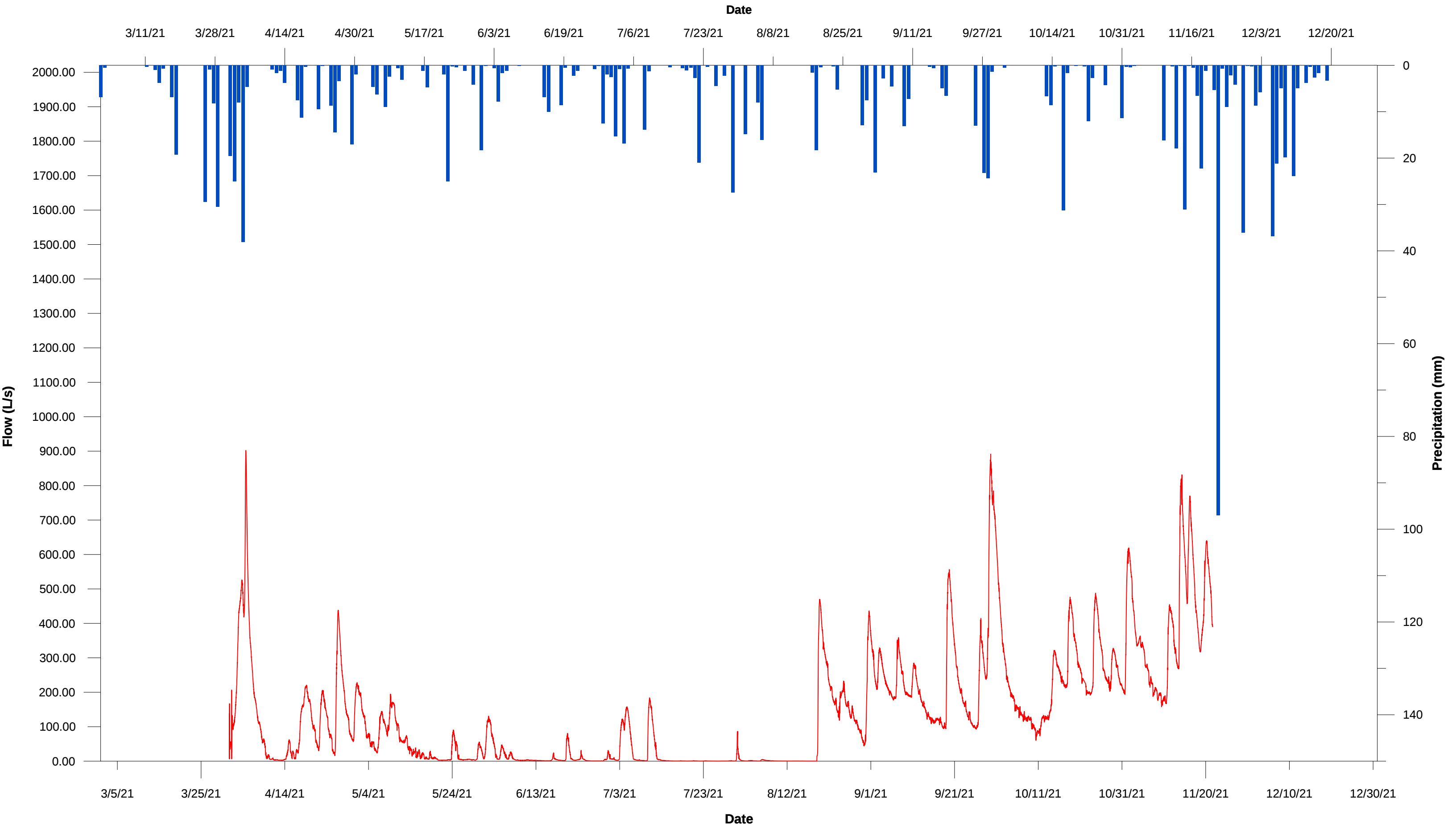
SW15
2021 Hydrograph
Goldboro Gold Mine Project
Anaconda Mining Inc.
Goldboro, Nova Scotia



Precipitation (Collegeville Auto)
Continuous Streamflow
Monthly Average Streamflow

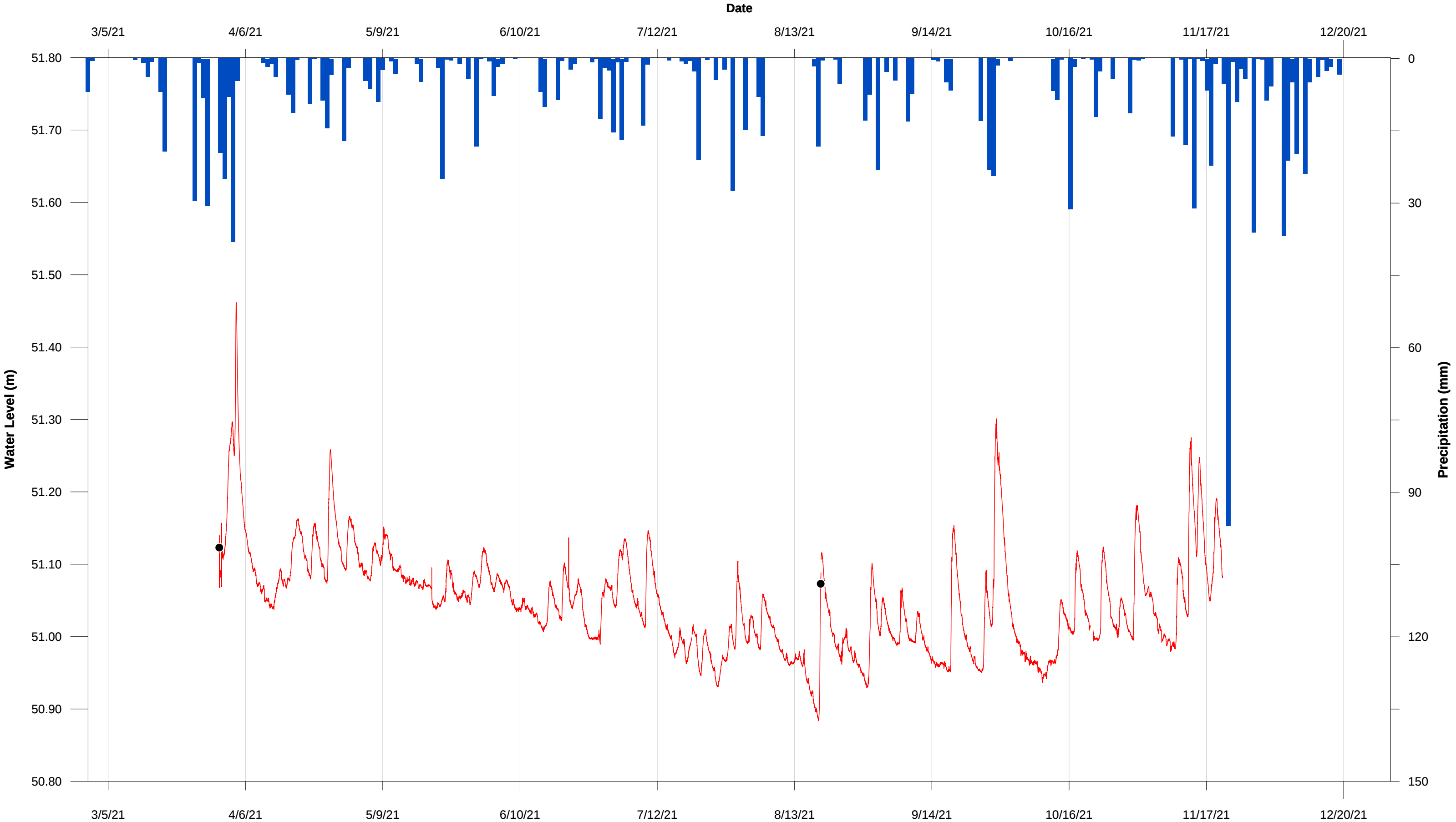
SW16
2021 Continous Flows
Goldboro Gold Mine Project
Anaconda Mining Inc.
Goldboro, Nova Scotia

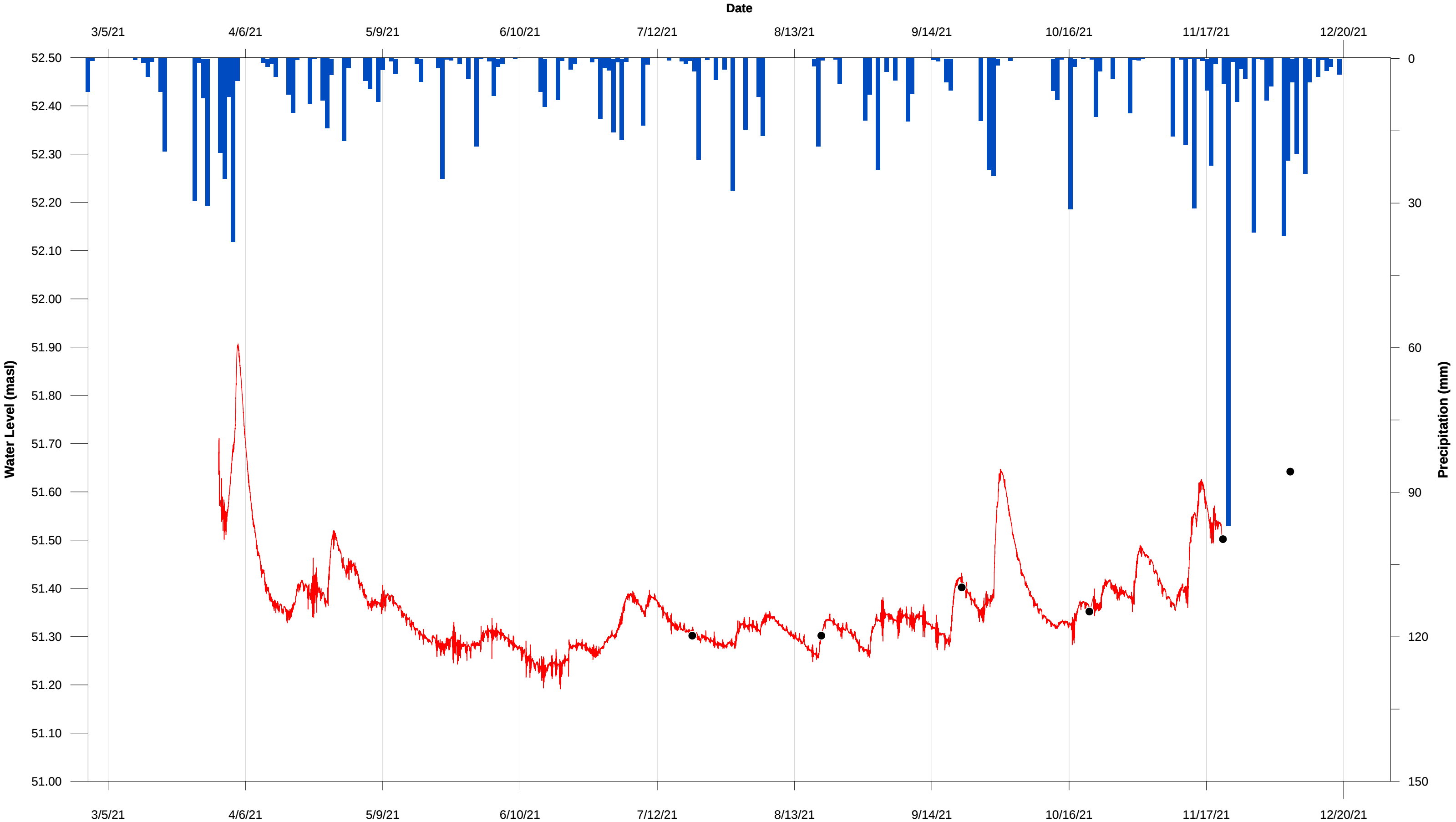




Precipitation (Collegeville Auto)
Continuous Streamflow
Monthly Average Streamflow

SW17
2021 Continous Flows
Goldboro Gold Mine Project
Anaconda Mining Inc.
Goldboro, Nova Scotia





Appendix C

**Surface Water Quality Results and
Laboratory Certificates**

Table C.1

Surface Water Results - General Chemistry
Goldboro Gold Mine Project, Guysborough County, NS

Parameters	Units	CCME FWAL	SW-11-21										SW-12-21											
			SW-11-21	SW-11-21	SW-11-21	SW-11-21	SW-11-21	SW-11-21	SW-11-21	SW-11-21	SW-11-21	SW-11-21	SW-12-21	SW-12-21	SW-12-21	SW-12-21	SW-12-21	SW-12-21	SW-12-21	SW-12-21	SW-DUP-A (FD of SW-12-21)	SW-12-21	SW-DUP-A (FD of SW-12-21)	SW-12-21
		Date	4/1/2021	5/21/2021	6/22/2021	7/20/2021	8/20/2021	9/22/2021	10/22/2021	11/21/2021	12/6/2021	3/31/2021	5/21/2021	6/22/2021	7/20/2021	8/19/2021	9/22/2021	10/22/2021	10/22/2021	11/21/2021	11/21/2021	12/6/2021	12/6/2021	
Anion Sum	me/L	NV	0.18	0.37	0.37	0.26	0.22	0.23	0.26	0.39	0.26	0.16	0.12	0.13	0.22	0.15	0.16	0.12	0.2	0.21	0.11	0.19	0.230	
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	NV	<1.0	5.3	6.7	<1.0	<1.0	<1.0	<1.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<5	<1.0	<1.0	
Calculated TDS	mg/L	NV	16	24	23	21	22	21	22	30	22	14	11	11	15	11	13	14	15	17	16	16	18	
Carb. Alkalinity (calc. as CaCO3)	mg/L	NV	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<1.0	<1.0	
Cation Sum	me/L	NV	0.29	0.38	0.41	0.37	0.43	0.43	0.39	0.75	0.38	0.25	0.21	0.21	0.23	0.24	0.26	0.29	0.28	0.48	0.67	0.31	0.320	
Hardness (CaCO3)	mg/L	NV	4.2	6.4	7.4	5.8	7.3	7.2	6.1	18.4	5.9	2.9	2.5	2.4	2.9	2.9	3.2	4	3.8	7.4	15.6	4.3	4.2	
Ion Balance (% Difference)	%	NV	23.4	1.33	5.13	17.5	32.3	30.3	20	31.4	18.8	22	27.3	23.5	2.22	23.1	23.8	41.5	16.7	38.7	71.1	24	16.4	
Langelier Index (@ 20C)	N/A	NV	NC	-4.05	-3.95	NC	NC	NC	NC	-4.7	NC	NC	NC	NC	NC	NC	NC	NC	NC	-5.8	-5.71	NC	NC	
Langelier Index (@ 4C)	N/A	NV	NC	-4.3	-4.21	NC	NC	NC	NC	-5.02	NC	NC	NC	NC	NC	NC	NC	NC	NC	-6.12	-6.03	NC	NC	
Nitrate (N)	mg/L	13	<0.050	0.054	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05	<0.05	<0.050	0.078	
Saturation pH (@ 20C)	N/A	NV	NC	10.4	10.2	NC	NC	NC	NC	10.1	NC	NC	NC	NC	NC	NC	NC	NC	NC	10.6	10.1	NC	NC	
Saturation pH (@ 4C)	N/A	NV	NC	10.6	10.4	NC	NC	NC	NC	10.4	NC	NC	NC	NC	NC	NC	NC	NC	NC	10.9	10.4	NC	NC	
Total Alkalinity (Total as CaCO3)	mg/L	NV	<5.0	5.3	6.7	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5.0	<5.0	
Dissolved Chloride (Cl-)	mg/L	120	6.5	7.1	6.6	6.8	7.7	8.1	9.2	8	9.3	5.6	4.3	4.5	4.9	5.3	5.8	4.4	7.1	6	4	6.6	7.8	
Colour	TCU	NV	130	120	160	150	290	300	160	169	160	130	140	120	110	100	140	190	180	186	200	190	190	
Nitrate + Nitrite (N)	mg/L	NV	<0.050	0.054	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05	<0.05	<0.050	0.088	
Nitrite (N)	mg/L	0.06	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.05	<0.05	<0.010	0.011	
Nitrogen (Ammonia Nitrogen)	mg/L	see note ⁽¹⁾	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.03	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.03	<0.03	<0.050	<0.050	
Total Organic Carbon (C)	mg/L	NV	12	11	15	24	26	31	16	24	16	11	10	9.4	10	9.4	13	16	15	-	12	18	17	
Orthophosphate (P)	mg/L	NV	0.013	0.022	0.063	0.063	0.036	0.016	0.031	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01	<0.010	<0.010	
pH	pH	6.5-9.0	5.42	6.33	6.24	6.07	5.56	5.76	6.17	5.37	5.14	4.99	5.59	5.18	5.49	5.78	5.82	5.87	5.56	4.76	4.4	4.68	4.62	
Reactive Silica (SiO2)	mg/L	NV	2.9	2.3	1.3	3	4.7	4	4.3	3.8	4.5	3.1	2	1.6	0.96	0.76	1.7	2.7	2.1	2.8	2.9	3.3	3.0	
Dissolved Sulphate (SO4)	mg/L	NV	<2.0	2.8	2.3	2.9	<2.0	<2.0	<2.0	8	<2.0	<2.0	<2.0	<2.0	3.8	<2.0	<2.0	<2.0	<2.0	2	<2	<2.0	<2.0	
Turbidity	NTU	NV	1.2	4.5	1.8	17	2.2	1.2	1.5	3.3	2.7	1.3	1.7	2.1	1.3	10	1.2	0.99	1.1	1.7	1.6	0.87	1.8	
Conductivity	uS/cm	NV	29	39	39	36	44	44	42	52	48	27	26	26	26	25	30	33	32	40	41	42	42	
Dissolved Organic Carbon (C)	mg/L	NV	11	9.1	12	12	26	29	-	22	15	10	10	8.2	9.2	9	11	-	-	-	10	17	17	
Chlorophyll a (acidification)	ug/L	NV	-	38.7	9.88	3.72	0.898	1.73	17.9	0.39	13	-	0.801	1.23	1.08	2.61	3.13	1.16	1.2	0.39	0.41	0.559	0.564	
Chlorophyll a (non-acidification)	ug/L	NV	-	51.2	13	6.73	1.28	2.49	25.1	-	17.2	-	0.949	1.5	1.25	3.29	3.48	1.62	1.63	-	-	0.686	0.737	

Notes:
General chemistry parameters are generally not considered potential COCs with the exception of chloride and sulphate.
NV - No value; FWAL - Freshwater aquatic life; NC - not calculated
nd = non detect value. Detection limits were not reported
-- Not applicable
(1) Guideline references CCME Factsheet for the conversion of NO₃⁻·L⁻¹ to NO₃⁻·N·L⁻¹.
The nitrate guideline in Table 2 within the factsheet was divided by 4.43 to present the guideline as "Nitrate (as N)".

Screening:

Shaded

 indicates values are greater than CCME FWAL
Bold indicates values are greater than NS Tier 1 EQS

References:
Canadian Council of Ministers of the Environment (CCME), current to 2021. Canadian

Table C.1

Surface Water Results - General Chemistry
Goldboro Gold Mine Project, Guysborough County, NS

Parameters	Units	CCME FWAL	SW-13-21										SW-14-21									
			SW-13-21	SW-13-21	SW-13-21	SW-13-21	SW-13-21	SW-13-21	SW-13-21	SW-13-21	SW-13-21	SW-13-21	SW-14-21	SW-14-21	SW-14-21	SW-14-21	SW-14-21	SW-14-21	SW-14-21	SW-14-21	SW-14-21	SW-14-21
Date			3/30/2021	5/20/2021	6/21/2021	7/20/2021	8/19/2021	9/22/2021	10/22/2021	11/21/2021	12/6/2021	3/30/2021	5/20/2021	6/21/2021	7/20/2021	8/19/2021	9/22/2021	10/22/2021	11/21/2021	12/6/2021		
Anion Sum	me/L	NV	0.12	0.16	0.18	0.23	0.19	0.2	0.19	0.2	0.23	0.15	0.2	0.17	0.16	0.19	0.19	0.18	0.2	0.19		
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	NV	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<1.0		
Calculated TDS	mg/L	NV	10	16	18	24	21	21	22	15	16	11	17	18	18	21	18	19	15	15		
Carb. Alkalinity (calc. as CaCO3)	mg/L	NV	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0		
Cation Sum	me/L	NV	0.19	0.26	0.29	0.34	0.43	0.41	0.36	0.44	0.31	0.2	0.25	0.32	0.3	0.44	0.35	0.34	0.42	0.32		
Hardness (CaCO3)	mg/L	NV	1.7	2.8	3.4	3.9	5.8	5.7	4.5	5	3.5	2	2.9	4.8	3.7	8	4.8	4.6	5	3.9		
Ion Balance (% Difference)	%	NV	22.6	23.8	23.4	19.3	38.7	34.4	30.9	37.9	14.8	14.3	11.1	30.6	30.4	39.7	29.6	30.8	36.1	25.5		
Langelier Index (@ 20C)	N/A	NV	NC	NC	NC	NC	NC	NC	NC	-6.53	NC	NC	NC	NC	NC	NC	NC	NC	-6.45	NC		
Langelier Index (@ 4C)	N/A	NV	NC	NC	NC	NC	NC	NC	NC	-6.85	NC	NC	NC	NC	NC	NC	NC	NC	-6.77	NC		
Nitrate (N)	mg/L	13	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05	<0.050		
Saturation pH (@ 20C)	N/A	NV	NC	NC	NC	NC	NC	NC	NC	10.8	NC	NC	NC	NC	NC	NC	NC	NC	10.8	NC		
Saturation pH (@ 4C)	N/A	NV	NC	NC	NC	NC	NC	NC	NC	11.1	NC	NC	NC	NC	NC	NC	NC	NC	11.1	NC		
Total Alkalinity (Total as CaCO3)	mg/L	NV	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0		
Dissolved Chloride (Cl-)	mg/L	120	4.4	5.6	6.4	6.7	6.8	7.2	6.9	7	8.1	5.4	5.6	5.9	5.8	6.7	6.7	6.2	7	6.9		
Colour	TCU	NV	130	180	210	290	340	420	280	202	150	110	110	200	140	320	270	230	166	150		
Nitrate + Nitrite (N)	mg/L	NV	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05	<0.050		
Nitrite (N)	mg/L	0.06	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.05	<0.010		
Nitrogen (Ammonia Nitrogen)	mg/L	see note ⁽¹⁾	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.03	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.03	<0.050		
Total Organic Carbon (C)	mg/L	NV	14	15	19	23	46	49	26	22	16	11	7.7	16	11	42	28	20	17	16		
Orthophosphate (P)	mg/L	NV	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	0.016	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010		
pH	pH	6.5-9.0	4.69	5.03	4.82	5.05	4.57	5.04	5.35	4.29	4.38	4.76	5.87	5.29	5.58	4.76	5.22	5.5	4.37	4.42		
Reactive Silica (SiO2)	mg/L	NV	1.6	4.9	5.8	8	5.9	4.9	6.8	3.5	2.2	1.8	3.8	5	5.4	5.4	3.8	5.5	3.2	2		
Dissolved Sulphate (SO4)	mg/L	NV	<2.0	<2.0	<2.0	2	<2.0	<2.0	<2.0	<2	<2.0	<2.0	2.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0		
Turbidity	NTU	NV	3.1	3.3	1.5	1.3	2.4	1.6	0.82	1.7	2.1	1.4	0.54	0.93	0.59	2	0.92	0.55	3.5	3.1		
Conductivity	uS/cm	NV	25	32	35	35	46	53	42	50	47	25	29	33	31	42	42	36	43	47		
Dissolved Organic Carbon (C)	mg/L	NV	12	13	18	22	44	45	-	21	16	10	7.3	14	13	40	27	-	18	15		
Chlorophyll a (acidification)	ug/L	NV	-	0.951	4.49	0.721	0.193	0.158	0.055	<0.25	0.062	-	0.631	2.04	0.323	0.382	0.519	0.133	0.36	0.2		
Chlorophyll a (non-acidification)	ug/L	NV	-	1.28	4.94	0.762	0.325	0.206	0.073	-	0.08	-	0.729	2.58	0.41	0.58	0.683	0.23	-	0.364		

Notes:
General chemistry parameters are generally not considered potential COCs with the exception of chloride and sulphate.
NV - No value; FWAL - Freshwater aquatic life; NC - not calculated
nd = non detect value. Detection limits were not reported
-- Not applicable
(1) Guideline references CCME Factsheet for the conversion of NO₃⁻·L⁻¹ to NO₃⁻·N·L⁻¹.
The nitrate guideline in Table 2 within the factsheet was divided by 4.43 to present the guideline as "Nitrate (as N)".

Screening:

Shaded

 indicates values are greater than CCME FWAL
Bold indicates values are greater than NS Tier 1 EQS

References:
Canadian Council of Ministers of the Environment (CCME), current to 2021. Canadian

Table C.1

Surface Water Results - General Chemistry
Goldboro Gold Mine Project, Guysborough County, NS

Parameters	Units	CCME FWAL	SW-15-21															SW-16-21									
			SW-15-21	SW-15-21	SW-DUP-A (FD of SW-15-21)	SW-15-21	SW-DUP-A (FD of SW-15-21)	SW-15-21	SW-DUP-A (FD of SW-15-21)	SW-15-21	SW-DUP-A (FD of SW-15-21)	SW-15-21	SW-DUP-A (FD of SW-15-21)	SW-15-21	SW-15-21	SW-15-21	SW-16-21	SW-16-21	SW-16-21	SW-16-21	SW-16-21	SW-16-21	SW-16-21	SW-16-21	SW-16-21		
Date			3/31/2021	5/20/2021	5/20/2021	6/21/2021	6/21/2021	7/20/2021	7/21/2021	8/20/2021	8/20/2021	9/22/2021	9/22/2021	10/22/2021	11/21/2021	12/6/2021	3/31/2021	5/20/2021	6/21/2021	7/20/2021	8/19/2021	9/22/2021	10/22/2021	11/21/2021	12/6/2021		
Anion Sum	me/L	NV	0.26	0.2	0.19	0.21	0.14	0.2	0.32	0.16	0.16	0.15	0.23	0.17	0.17	0.17	0.14	0.14	0.16	0.16	0.17	0.25	0.18	0.11	0.23		
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	NV	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.4	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<1.0			
Calculated TDS	mg/L	NV	17	14	14	15	11	14	18	12	12	12	16	12	12	13	11	13	16	15	19	22	19	13	16		
Carb. Alkalinity (calc. as CaCO3)	mg/L	NV	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0			
Cation Sum	me/L	NV	0.23	0.23	0.22	0.23	0.22	0.22	0.23	0.22	0.22	0.22	0.22	0.23	0.31	0.23	0.18	0.23	0.26	0.27	0.36	0.37	0.33	0.5	0.3		
Hardness (CaCO3)	mg/L	NV	2.8	2.9	2.7	3	2.9	2.9	3.1	2.8	2.9	2.8	2.8	3.1	4.1	3	1.8	2.3	3.5	3.1	5.4	5.9	4.6	8.2	3.6		
Ion Balance (% Difference)	%	NV	6.12	6.98	7.32	4.55	22.2	4.76	16.4	15.8	15.8	18.9	2.22	15	28.9	15	12.5	24.3	23.8	25.6	35.9	19.4	29.4	63.2	13.2		
Langelier Index (@ 20C)	N/A	NV	NC	NC	NC	NC	NC	NC	-5.28	NC	NC	NC	NC	NC	-6.04	NC	NC	NC	NC	NC	NC	NC	NC	-6.26	NC		
Langelier Index (@ 4C)	N/A	NV	NC	NC	NC	NC	NC	NC	-5.53	NC	NC	NC	NC	NC	-6.36	NC	NC	NC	NC	NC	NC	NC	NC	-6.58	NC		
Nitrate (N)	mg/L	13	<0.050	<0.050	<0.050	<0.050	0.058	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05	0.054	<0.050	<0.050	<0.050	0.056	<0.050	<0.050	<0.050	<0.05	<0.050		
Saturation pH (@ 20C)	N/A	NV	NC	NC	NC	NC	NC	NC	10.8	NC	NC	NC	NC	NC	10.9	NC	NC	NC	NC	NC	NC	NC	NC	10.5	NC		
Saturation pH (@ 4C)	N/A	NV	NC	NC	NC	NC	NC	NC	11.1	NC	NC	NC	NC	NC	11.2	NC	NC	NC	NC	NC	NC	NC	NC	10.8	NC		
Total Alkalinity (Total as CaCO3)	mg/L	NV	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.4	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0			
Dissolved Chloride (Cl-)	mg/L	120	6.6	5.1	5	5	4.7	4.8	5	5.5	5.5	5.5	4.7	6	6	6.1	4.9	4.9	5.5	5.5	6.2	8.9	6.3	4	8		
Colour	TCU	NV	49	39	39	35	34	25	26	24	27	26	26	36	47	48	140	130	190	170	240	330	260	184	170		
Nitrate + Nitrite (N)	mg/L	NV	<0.050	<0.050	<0.050	<0.050	0.058	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05	0.054	<0.050	<0.050	<0.050	0.056	<0.050	<0.050	<0.050	<0.05	<0.050		
Nitrite (N)	mg/L	0.06	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.05	<0.010		
Nitrogen (Ammonia Nitrogen)	mg/L	see note ⁽¹⁾	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.03	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.03	<0.050		
Total Organic Carbon (C)	mg/L	NV	5.6	4.9	4.9	4.9	4.7	4.3	4.6	3.9	4.3	4.1	4	4.6	6	5.8	12	11	16	15	31	40	25	20	18		
Orthophosphate (P)	mg/L	NV	<0.010	<0.010	<0.010	<0.010	0.019	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010			
pH	pH	6.5-9.0	5.25	5.78	5.48	5.52	5.35	6.19	5.57	5.46	5.42	5.86	5.83	5.93	4.87	5.44	4.67	4.92	5.41	5.07	4.81	5.11	5.26	4.19	4.32		
Reactive Silica (SiO2)	mg/L	NV	2.2	1.8	2.1	1.8	1.7	1.8	1.8	1.6	1.8	1.8	1.7	1.5	1.6	1.8	2.1	3.2	4.3	3.9	5.3	5.1	5.5	4.5	2.1		
Dissolved Sulphate (SO4)	mg/L	NV	3.8	2.7	2.4	3.4	<2.0	2.9	3.2	<2.0	<2.0	<2.0	4.7	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0			
Turbidity	NTU	NV	0.81	0.88	0.93	1.8	1.1	1.5	0.91	0.88	1.3	0.68	1	0.98	1.6	0.56	1.8	2.1	1.9	0.79	1.6	0.95	1.4	2.2	2.1		
Conductivity	uS/cm	NV	26	27	27	27	26	27	26	25	25	27	27	27	30	28	25	29	32	33	39	48	41	49	48		
Dissolved Organic Carbon (C)	mg/L	NV	5.2	4.8	4.8	4.5	4.6	4.1	4.1	3.9	4	4	3.9	-	5	5.5	12	10	15	15	30	36	-	21	17		
Chlorophyll a (acidification)	ug/L	NV	-	0.813	0.817	1.69	2.17	1.91	3.17	3.33	1.92	1.05	1.12	1.49	1.16	0.64	-	1.32	123	0.284	1.74	0.423	0.172	2.36	0.135		
Chlorophyll a (non-acidification)	ug/L	NV	-	0.855	0.891	1.9	2.43	1.82	2.68	4.17	2.25	1.27	1.27	1.93	-	0.805	-	1.56	144	0.348	1.96	0.519	0.272	-	0.336		

Notes:
General chemistry parameters are generally not considered potential COCs with the exception of chloride and sulphate.
NV - No value; FWAL - Freshwater aquatic life; NC - not calculated
nd = non detect value. Detection limits were not reported
-- Not applicable
(1) Guideline references CCME Factsheet for the conversion of NO₃⁻·L⁻¹ to NO₃⁻·N·L⁻¹.
The nitrate guideline in Table 2 within the factsheet was divided by 4.43 to present the guideline as "Nitrate (as N)".

Screening:

Shaded

 indicates values are greater than CCME FWAL
Bold indicates values are greater than NS Tier 1 EQS

References:
Canadian Council of Ministers of the Environment (CCME), current to 2021. Canadian

Table C.1

Surface Water Results - General Chemistry
Goldboro Gold Mine Project, Guysborough County, NS

Parameters	Units	CCME FWAL	SW-17-21										SW-18-21									
			SW-17-21	SW-17-21	SW-17-21	SW-17-21	SW-17-21	SW-17-21	SW-17-21	SW-17-21	SW-17-21	SW-17-21	SW-18-21	SWDUPA-21 (FD of SW-18-21)	SW-18-21	SW-18-21	SW-18-21	SW-18-21	SW-18-21	SW-18-21	SW-18-21	SW-18-21
Date			3/31/2021	5/20/2021	6/21/2021	7/20/2021	8/19/2021	9/22/2021	10/22/2021	11/21/2021	12/6/2021	3/30/2021	3/30/2021	5/21/2021	6/22/2021	7/21/2021	8/20/2021	9/22/2021	10/22/2021	11/21/2021	12/6/2021	
Anion Sum	me/L	NV	0.13	0.14	0.17	0.15	0.17	0.23	0.17	0.2	0.2	0.14	0.13	0.16	0.18	0.26	0.21	0.39	0.24	0.2	0.21	
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	NV	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<1.0	
Calculated TDS	mg/L	NV	10	14	18	17	20	22	20	15	14	10	11	20	22	29	24	30	24	17	18	
Carb. Alkalinity (calc. as CaCO3)	mg/L	NV	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	
Cation Sum	me/L	NV	0.18	0.25	0.29	0.28	0.4	0.4	0.33	0.49	0.3	0.19	0.2	0.3	0.34	0.44	0.47	0.43	0.37	0.6	0.32	
Hardness (CaCO3)	mg/L	NV	1.6	2.4	3.7	3	5.8	6.3	4.6	5.7	3.2	1.9	1.9	4.1	4.9	5.4	6.2	6.4	5.2	10	3.7	
Ion Balance (% Difference)	%	NV	16.1	28.2	26.1	30.2	40.4	27	32	42.2	20	15.2	21.2	30.4	30.8	25.7	38.2	4.88	21.3	50.4	20.8	
Langelier Index (@ 20C)	N/A	NV	NC	NC	NC	NC	NC	NC	NC	-6.69	NC	NC	NC	NC	NC	NC	NC	NC	NC	-6.22	NC	
Langelier Index (@ 4C)	N/A	NV	NC	NC	NC	NC	NC	NC	NC	-7.01	NC	NC	NC	NC	NC	NC	NC	NC	NC	-6.54	NC	
Nitrate (N)	mg/L	13	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05	<0.050	
Saturation pH (@ 20C)	N/A	NV	NC	NC	NC	NC	NC	NC	NC	10.7	NC	NC	NC	NC	NC	NC	NC	NC	NC	10.4	NC	
Saturation pH (@ 4C)	N/A	NV	NC	NC	NC	NC	NC	NC	NC	11	NC	NC	NC	NC	NC	NC	NC	NC	NC	10.7	NC	
Total Alkalinity (Total as CaCO3)	mg/L	NV	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	
Dissolved Chloride (Cl-)	mg/L	120	4.6	4.9	5.9	5.3	5.9	8	6.1	7	7.1	4.8	4.7	5.7	6.4	7.5	7.4	14	8.5	7	7.5	
Colour	TCU	NV	140	140	260	190	310	450	310	209	180	160	160	170	270	280	400	380	290	240	200	
Nitrate + Nitrite (N)	mg/L	NV	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05	<0.050	
Nitrite (N)	mg/L	0.06	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.05	<0.010	
Nitrogen (Ammonia Nitrogen)	mg/L	see note ⁽¹⁾	<0.050	<0.050	0.052	<0.050	<0.050	<0.050	<0.050	<0.03	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.03	<0.050	
Total Organic Carbon (C)	mg/L	NV	14	13	19	17	41	47	28	24	18	14	14	11	39	31	45	51	23	24	18	
Orthophosphate (P)	mg/L	NV	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.011	<0.010	<0.010	<0.01	<0.010	
pH	pH	6.5-9.0	4.61	4.89	5.45	5.03	4.53	5	5.18	4.01	4.27	4.71	4.72	5.53	5.44	5.52	4.87	5.55	5.61	4.17	4.56	
Reactive Silica (SiO2)	mg/L	NV	2.1	3.7	5.6	5.1	6.5	5.9	6.9	3.4	1.9	1.7	1.8	7.5	7.7	8.6	6	6	6.9	2.9	4.1	
Dissolved Sulphate (SO4)	mg/L	NV	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	2.2	<2.0	<2.0	<2.0	<2	<2.0	
Turbidity	NTU	NV	2	4.7	0.87	1	2.2	1.2	3.6	1.8	2.2	1.7	1.7	0.98	6	52	74	26	1.4	3.5	0.79	
Conductivity	uS/cm	NV	25	30	32	32	42	54	42	54	49	24	24	32	35	36	39	44	38	50	41	
Dissolved Organic Carbon (C)	mg/L	NV	13	11	20	18	40	46	-	25	17	14	14	11	17	19	36	35	-	19	17	
Chlorophyll a (acidification)	ug/L	NV	-	1.85	1.62	0.662	0.419	0.349	0.942	0.39	0.124	-	-	0.445	2.08	5.84	8.76	6.55	0.08	0.39	0.16	
Chlorophyll a (non-acidification)	ug/L	NV	-	2.51	2.37	0.733	0.635	0.432	1.64	-	0.257	-	-	0.809	2.37	6.82	12.6	8.73	0.25	-	0.36	

Notes:
General chemistry parameters are generally not considered potential COCs with the exception of chloride and sulphate.
NV - No value; FWAL - Freshwater aquatic life; NC - not calculated
nd = non detect value. Detection limits were not reported
-- Not applicable
(1) Guideline references CCME Factsheet for the conversion of NO₃⁻·L⁻¹ to NO₃⁻·N·L⁻¹.
The nitrate guideline in Table 2 within the factsheet was divided by 4.43 to present the guideline as "Nitrate (as N)".

Screening:

Shaded

 indicates values are greater than CCME FWAL
Bold indicates values are greater than NS Tier 1 EQS

References:
Canadian Council of Ministers of the Environment (CCME), current to 2021. Canadian

Table C.1

Surface Water Results - General Chemistry
Goldboro Gold Mine Project, Guysborough County, NS

Parameters	Units	CCME FWAL	SW-19-21										SW-20-21									
			SW-19-21	SW-19-21	SW-19-21	SW-19-21	SW-19-21	SW-19-21	SW-19-21	SW-19-21	SW-19-21	SW-19-21	SW-20-21	SW-20-21	SW-20-21	SW-20-21	SW-20-21	SW-20-21	SW-20-21	SW-20-21	SW-20-21	SW-20-21
Date			3/30/2021	5/21/2021	6/22/2021	7/21/2021	8/20/2021	9/22/2021	10/22/2021	11/21/2021	12/6/2021	3/30/2021	5/20/2021	6/21/2021	7/20/2021	8/20/2021	9/22/2021	10/22/2021	11/21/2021	12/6/2021		
Anion Sum	me/L	NV	0.14	0.15	0.19	0.21	0.2	0.24	0.2	0.2	0.23	0.21	0.17	0.19	0.2	0.19	0.2	0.2	0.2	0.2	0.23	
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	NV	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5	<1.0	
Calculated TDS	mg/L	NV	11	15	20	21	21	22	19	15	17	15	16	19	21	20	21	21	19	17		
Carb. Alkalinity (calc. as CaCO3)	mg/L	NV	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	
Cation Sum	me/L	NV	0.19	0.29	0.35	0.42	0.47	0.43	0.37	0.52	0.31	0.23	0.29	0.32	0.38	0.38	0.39	0.37	0.7	0.32		
Hardness (CaCO3)	mg/L	NV	2	3.4	4.5	4.4	6.3	5.5	4.7	5.8	3.3	2.5	3.2	3.9	4.7	5.2	5.5	5.3	14	3.9		
Ion Balance (% Difference)	%	NV	15.2	31.8	29.6	33.3	40.3	28.4	29.8	45	14.8	4.55	26.1	25.5	31	33.3	32.2	29.8	56.1	16.4		
Langelier Index (@ 20C)	N/A	NV	NC	NC	NC	NC	NC	NC	NC	-6.65	NC	NC	NC	NC	NC	NC	NC	NC	-6.03	NC		
Langelier Index (@ 4C)	N/A	NV	NC	NC	NC	NC	NC	NC	NC	-6.97	NC	NC	NC	NC	NC	NC	NC	NC	-6.35	NC		
Nitrate (N)	mg/L	13	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05	<0.050		
Saturation pH (@ 20C)	N/A	NV	NC	NC	NC	NC	NC	NC	NC	10.6	NC	NC	NC	NC	NC	NC	NC	NC	10.2	NC		
Saturation pH (@ 4C)	N/A	NV	NC	NC	NC	NC	NC	NC	NC	11	NC	NC	NC	NC	NC	NC	NC	NC	10.5	NC		
Total Alkalinity (Total as CaCO3)	mg/L	NV	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0		
Dissolved Chloride (Cl-)	mg/L	120	4.8	5.2	6.8	7.4	7	8.5	6.9	7	8	5.6	6	6.7	7.2	6.6	7	7.1	7	8.3		
Colour	TCU	NV	180	240	300	340	380	430	380	270	220	160	190	230	280	270	360	300	228	180		
Nitrate + Nitrite (N)	mg/L	NV	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05	<0.050		
Nitrite (N)	mg/L	0.06	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.05	<0.010		
Nitrogen (Ammonia Nitrogen)	mg/L	see note ⁽¹⁾	<0.050	<0.050	<0.050	0.065	<0.050	<0.050	<0.050	<0.03	<0.050	<0.050	<0.050	<0.050	0.059	<0.050	<0.050	<0.050	<0.03	<0.050		
Total Organic Carbon (C)	mg/L	NV	15	130	26	65	51	53	42	28	28	13	15	18	23	28	41	27	22	17		
Orthophosphate (P)	mg/L	NV	0.047	<0.010	<0.010	<0.010	0.012	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010		
pH	pH	6.5-9.0	4.72	4.88	4.82	4.36	4.29	4.96	5.04	3.99	4.42	4.79	4.97	5.37	5.05	4.74	5.17	5.33	4.16	4.41		
Reactive Silica (SiO2)	mg/L	NV	1.7	4	5.5	5.1	4.5	4.6	4.5	2.4	3.4	2.6	3.4	4.9	5.4	5.9	5.2	5.8	3.5	2.1		
Dissolved Sulphate (SO4)	mg/L	NV	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0		
Turbidity	NTU	NV	2.1	22	7.8	290	14	14	15	6.6	33	1.7	1.7	1.6	2	2.7	0.99	5.9	2.6	4		
Conductivity	uS/cm	NV	24	31	37	54	50	56	51	56	47	27	33	36	36	36	46	42	50	47		
Dissolved Organic Carbon (C)	mg/L	NV	13	18	21	39	46	49	-	27	18	13	15	15	24	27	37	-	22	17		
Chlorophyll a (acidification)	ug/L	NV	-	4.91	11.9	17.8	7.55	4.31	10.6	0.78	13.7	-	0.512	1.8	0.941	0.319	0.19	0.24	<0.25	0.043		
Chlorophyll a (non-acidification)	ug/L	NV	-	19.2	15.6	31.4	9.74	5.12	14.5	-	22.6	-	0.7	2.66	0.934	0.45	0.237	0.315	-	0.122		

Notes:
General chemistry parameters are generally not considered potential COCs with the exception of chloride and sulphate.
NV - No value; FWAL - Freshwater aquatic life; NC - not calculated
nd = non detect value. Detection limits were not reported
-- Not applicable
(1) Guideline references CCME Factsheet for the conversion of NO₃⁻·L⁻¹ to NO₃⁻·N·L⁻¹.
The nitrate guideline in Table 2 within the factsheet was divided by 4.43 to present the guideline as "Nitrate (as N)".

Screening:

Shaded

 indicates values are greater than CCME FWAL
Bold indicates values are greater than NS Tier 1 EQS

References:
Canadian Council of Ministers of the Environment (CCME), current to 2021. Canadian

Table C.2

Surface Water Results - Dissolved Metals
Goldboro Gold Mine Project, Guysborough County, NS

Parameters	Units	CCME FWAL	NS Tier 1 EQS	SW-11-21										SW-12-21											
				SW-11-21	SW-11-21	SW-11-21	SW-11-21	SW-11-21	SW-11-21	SW-11-21	SW-11-21	SW-11-21	SW-11-21	SW-12-21	SW-12-21	SW-12-21	SW-12-21	SW-12-21	SW-12-21	SW-12-21	SW-DUP-A (FD of SW-12-21)	SW-12-21	SW-DUP-A (FD of SW-12-21)	SW-12-21	SW-DUP-A (FD of SW-12-21)
Date			4/1/2021	5/21/2021	6/22/2021	7/20/2021	8/20/2021	9/22/2021	10/22/2021	11/21/2021	12/6/2021	3/31/2021	5/21/2021	6/22/2021	7/20/2021	8/19/2021	9/22/2021	10/22/2021	10/22/2021	11/21/2021	11/21/2021	12/6/2021	12/6/2021		
Dissolved Aluminum (Al)	ug/L	(see note) ^a	5	210	190	270	200	570	500	300	352	300	240	240	220	250	250	310	390	380	412	398	350	350	
Dissolved Antimony (Sb)	ug/L	NV	9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2	<2	<1.0	<1.0		
Dissolved Arsenic (As)	ug/L	5.0	5	26	110	200	230	120	92	100	11	9.9	5.4	18	10	40	25	13	15	14	6	6	6.9	6.8	
Dissolved Barium (Ba)	ug/L	NV	1000	2.2	2.9	-	2.2	3.8	3.6	3.3	<5	3.1	2.2	2	2.1	2	2.2	3	3	<5	<5	3.3	3.2		
Dissolved Beryllium (Be)	ug/L	NV	0.15	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<2	<0.10	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<2	<2	<0.10	<0.10		
Dissolved Bismuth (Bi)	ug/L	NV	NV	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2.0	<2.0		
Dissolved Boron (B)	ug/L	1,500	1500	<50	<50	<50	<50	<50	<50	<50	<5	<50	<50	<50	<50	<50	<50	<50	<50	<5	<5	<50	<50		
Dissolved Cadmium (Cd)	ug/L	(see note) ^b	0.09	0.012	0.01	0.012	<0.010	0.018	0.013	<0.010	<0.09	0.018	0.012	<0.010	<0.010	<0.010	0.013	0.012	0.014	0.012	<0.09	<0.09	0.018	0.022	
Dissolved Calcium (Ca)	ug/L	NV	NV	950	1500	1800	1400	1700	1600	1300	-	1200	500	450	450	540	550	600	740	660	-	-	730	710	
Dissolved Chromium (Cr)	ug/L	NV	8.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1.0	<1.0		
Dissolved Cobalt (Co)	ug/L	NV	1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<1	<1	<0.40	<0.40	
Dissolved Copper (Cu)	ug/L	(see note) ^c	2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2	<2	<0.50	<0.50	
Dissolved Iron (Fe)	ug/L	300	300	300	810	860	850	1000	1100	760	435	460	270	320	250	330	340	430	560	530	476	521	470	470	
Dissolved Lead (Pb)	ug/L	(see note) ^d	1	<0.50	<0.50	<0.50	<0.50	0.63	<0.50	<0.50	0.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.54	0.6	0.59	1	1.1	0.58	0.58	
Dissolved Magnesium (Mg)	ug/L	NV	NV	450	640	690	570	770	800	670	-	690	390	340	320	380	370	420	530	510	-	-	600	590	
Dissolved Manganese (Mn)	ug/L	(see note) ^e	430	30	39	32	14	39	100	27	64	63	16	16	12	8.4	6.6	14	19	19	22	22	24	24	
Dissolved Mercury (Hg)	ug/L	0.026	0.026	<0.013	<0.013	<0.013	<0.013	<0.013	0.013	<0.013	0.025	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	0.025	0.025	<0.013	<0.013		
Dissolved Molybdenum (Mo)	ug/L	73	73	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2.0	<2.0		
Dissolved Nickel (Ni)	ug/L	(see note) ^f	25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2.0	<2.0		
Dissolved Phosphorus (P)	ug/L	NV	NV	<100	<100	<100	<100	<100	<100	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	-	-	<100	<100	
Dissolved Potassium (K)	ug/L	NV	NV	460	430	470	400	510	550	470	-	320	290	290	300	310	300	300	310	340	-	-	350	340	
Dissolved Selenium (Se)	ug/L	1.0	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1	<1	<0.50	<0.50		
Dissolved Silver (Ag)	ug/L	0.25	0.25	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10		
Dissolved Sodium (Na)	ug/L	NV	NV	4100	4900	5000	4900	5400	5200	5200	-	5300	3800	3300	3200	3500	3600	3800	4200	4000	-	-	4100	4200	
Dissolved Strontium (Sr)	ug/L	NV	21000	7.5	11	12	8.9	13	13	11	10	9.6	5.1	4.9	5	4.9	5.5	6.3	7.5	7.4	8	8	8	7.8	
Dissolved Thallium (Tl)	ug/L	0.8	0.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10		
Dissolved Tin (Sn)	ug/L	NV	NV	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2.0	<2.0		
Dissolved Titanium (Ti)	ug/L	NV	NV	<2.0	2.4	5.1	3	7.6	4.9	3.5	4	3.6	2.5	3.8	2.2	2.4	2.8	3.7	4.4	3.6	4	4	3.5	4.1	
Dissolved Uranium (U)	ug/L	15	15	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10		
Dissolved Vanadium (V)	ug/L	NV	120	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2.0	<2.0		
Dissolved Zinc (Zn)	ug/L	7	7	<5.0	<5.0	14	6.8	7.2	6.8	22	5	<5.0	<5.0	<5.0	6.5	6.2	5.1	5	<5.0	<5.0	<5	<5	<5.0	5.4	

Notes:
NV - No value; FWAL - Freshwater aquatic life
→ Not applicable
nd = non detect value. Detection limits were not reported
a - Aluminum guideline for FWAL = 5 µg/L for pH <6.5 and 100 µg/L for pH ≥6.5.

b - Cadmium guideline for FWAL is 0.04 ug/L at hardness <17 mg/L, otherwise calculated as 10^(0.83[log(hardness)]-2.46)

c - Copper guideline = When water hardness is 0 to <82 mg/L, the guideline is 2 µg/L; when hardness is > 82 to < 180 mg/L equation: e 0.845[ln(hardness)] -1.465 X 0.2 µg/L is used to determine the copper guideline. At hardness >180 mg/L the guideline is 4 µg/L. Water hardness at all locations are <82 mg/L and as such, the guideline is 2 µg/L.

d - Lead guideline = When water hardness is 0 to <60 mg/L, the guideline is 1ug/L; when hardness is >60 to < 180 mg/L equation: e 1.273[ln(hardness)] -4.705 ug/L is used to determine the lead guideline. At hardness >180 mg/L the guideline is 7 ug/L.

e - Manganese guideline calculated using the Manganese - Canadian Water Quality Guideline and Benchmark Calculator provided in Appendix B of the Scientific Criteria Document for the Development of the Canadian Water Quality Guidelines for the Protection of Aquatic Life. Criteria for manganese was posted December 19, 2019. All results were compared to guidelines in effect at the time of sampling.

f - Nickel guideline = When water hardness is 0 to <60 mg/L, the guideline is 25 ug/L; when hardness is > 60 to < 180 mg/L equation: e 0.76[ln(hardness)] + 1.06 ug/L is used to determine the nickel guideline. At hardness >180 mg/L the guideline is 150 ug/L.

Screening:
Shaded indicates values are greater than CCME FWAL

Bold indicates values are greater than NS Tier 1 EQS

References:
Canadian Council of Ministers of the Environment (CCME), current to 2017. Canadian Water Quality Guidelines (WQGs) for the Protection of Aquatic Life (freshwater, long term)

Table C.2

Surface Water Results - Dissolved Metals
Goldboro Gold Mine Project, Guysborough County, NS

Parameters	Units	CCME FWAL	NS Tier 1 EQS	SW-13-21									SW-14-21								
				SW-13-21	SW-13-21	SW-13-21	SW-13-21	SW-13-21	SW-13-21	SW-13-21	SW-13-21	SW-13-21	SW-14-21	SW-14-21	SW-14-21	SW-14-21	SW-14-21	SW-14-21	SW-14-21	SW-14-21	
			Date	3/30/2021	5/20/2021	6/21/2021	7/20/2021	8/19/2021	9/22/2021	10/22/2021	11/21/2021	12/6/2021	3/30/2021	5/20/2021	6/21/2021	7/20/2021	8/19/2021	10/22/2021	11/21/2021	12/6/2021	
Dissolved Aluminum (Al)	ug/L	(see note) ^a	5	190	280	340	440	900	790	490	363	230	150	160	320	190	750	340	273	210	
Dissolved Antimony (Sb)	ug/L	NV	9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2	<1.0	
Dissolved Arsenic (As)	ug/L	5.0	5	1.1	2.7	3.3	5.1	4.1	5.5	3.9	3	1.2	<1.0	<1.0	1.2	1.6	1.5	1.5	<2	1.1	
Dissolved Barium (Ba)	ug/L	NV	1000	1.3	2.1	2.7	2.9	5.4	4.7	3.3	<5	2.6	1.6	1.9	2.7	2.1	5.8	11	<5	3.1	
Dissolved Beryllium (Be)	ug/L	NV	0.15	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<2	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<2	<0.10	
Dissolved Bismuth (Bi)	ug/L	NV	NV	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	
Dissolved Boron (B)	ug/L	1,500	1500	<50	<50	<50	<50	<50	<50	<50	<5	<50	<50	<50	<50	<50	<50	<50	<5	<50	
Dissolved Cadmium (Cd)	ug/L	(see note) ^b	0.09	<0.010	<0.010	0.011	0.013	0.04	0.018	0.015	<0.09	0.017	<0.010	<0.010	0.013	<0.010	0.033	0.013	<0.09	0.019	
Dissolved Calcium (Ca)	ug/L	NV	NV	290	490	610	750	970	840	740	-	520	370	570	1000	770	1700	910	-	670	
Dissolved Chromium (Cr)	ug/L	NV	8.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0	
Dissolved Cobalt (Co)	ug/L	NV	1	<0.40	<0.40	<0.40	<0.40	0.61	0.6	0.5	<1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<1	<0.40	
Dissolved Copper (Cu)	ug/L	(see note) ^c	2	<0.50	<0.50	<0.50	<0.50	0.93	<0.50	<0.50	<2	<0.50	<0.50	<0.50	<0.50	<0.50	0.64	<0.50	<2	<0.50	
Dissolved Iron (Fe)	ug/L	300	300	220	380	540	1100	1500	1500	1200	589	290	160	210	380	490	1100	750	462	220	
Dissolved Lead (Pb)	ug/L	(see note) ^d	1	<0.50	0.58	<0.50	0.94	1.5	1.4	0.78	0.9	<0.50	<0.50	<0.50	0.65	0.55	1.4	0.68	0.8	<0.50	
Dissolved Magnesium (Mg)	ug/L	NV	NV	240	370	450	500	820	810	640	-	540	270	370	550	440	910	560	-	530	
Dissolved Manganese (Mn)	ug/L	(see note) ^e	430	22	23	33	33	36	51	76	49	47	16	15	14	13	27	25	21	24	
Dissolved Mercury (Hg)	ug/L	0.026	0.026	<0.013	<0.013	<0.013	<0.013	0.015	0.015	<0.013	0.025	<0.013	<0.013	<0.013	<0.013	<0.013	0.013	<0.013	0.021	<0.013	
Dissolved Molybdenum (Mo)	ug/L	73	73	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	
Dissolved Nickel (Ni)	ug/L	(see note) ^f	25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	
Dissolved Phosphorus (P)	ug/L	NV	NV	<100	<100	<100	<100	<100	<100	<100	-	<100	<100	<100	<100	<100	<100	<100	-	<100	
Dissolved Potassium (K)	ug/L	NV	NV	320	350	250	370	140	250	270	-	300	270	350	300	330	210	300	-	310	
Dissolved Selenium (Se)	ug/L	1.0	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1	<0.50	
Dissolved Silver (Ag)	ug/L	0.25	0.25	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	
Dissolved Sodium (Na)	ug/L	NV	NV	2800	4000	4200	4700	5300	4900	4900	-	4100	3000	4100	4500	4600	5100	4700	-	4200	
Dissolved Strontium (Sr)	ug/L	NV	21000	3.4	5.8	6.9	7.4	13	11	8.6	7	6.1	3.9	5.8	8.6	6.6	16	8.9	7	7.1	
Dissolved Thallium (Tl)	ug/L	0.8	0.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	
Dissolved Tin (Sn)	ug/L	NV	NV	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	
Dissolved Titanium (Ti)	ug/L	NV	NV	2.3	3	5.2	7.3	11	9.1	6.2	4	2.7	<2.0	<2.0	3.5	3.3	9.4	4.1	3	2.6	
Dissolved Uranium (U)	ug/L	15	15	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	
Dissolved Vanadium (V)	ug/L	NV	120	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	
Dissolved Zinc (Zn)	ug/L	7	7	<5.0	5.4	6.8	6.6	6.1	5.1	<5.0	5	<5.0	<5.0	<5.0	5.1	5.9	9.9	40	<5	<5.0	

Notes:
NV - No value; FWAL - Freshwater aquatic life
-- Not applicable
nd = non detect value. Detection limits were not reported
a - Aluminum guideline for FWAL = 5 µg/L for pH <6.5 and 100 µg/L for pH ≥6.5.

b - Cadmium guideline for FWAL is 0.04 ug/L at hardness <17 mg/L, otherwise calculated as 10^(0.83[log(hardness)]-2.46)

c - Copper guideline = When water hardness is 0 to <82 mg/L, the guideline is 2 µg/L; when hardness is > 82 to < 180 mg/L equation: e 0.845[ln(hardness)] -1.465 X 0.2 µg/L is used to determine the copper guideline. At hardness >180 mg/L the guideline is 4 µg/L. Water hardness at all locations are <82 mg/L and as such, the guideline is 2 µg/L.

d - Lead guideline = When water hardness is 0 to <60 mg/L, the guideline is 1ug/L; when hardness is >60 to < 180 mg/L equation: e 1.273[ln(hardness)] -4.705 ug/L is used to determine the lead guideline. At hardness >180 mg/L the guideline is 7 ug/L.

e - Manganese guideline calculated using the Manganese - Canadian Water Quality Guideline and Benchmark Calculator provided in Appendix B of the Scientific Criteria Document for the Development of the Canadian Water Quality Guidelines for the Protection of Aquatic Life. Criteria for manganese was posted December 19, 2019. All results were compared to guidelines in effect at the time of sampling.

f - Nickel guideline = When water hardness is 0 to <60 mg/L, the guideline is 25 ug/L; when hardness is > 60 to < 180 mg/L equation: e 0.76[ln(hardness)] + 1.06 ug/L is used to determine the nickel guideline. At hardness >180 mg/L the guideline is 150 ug/L.

Screening:
Shaded indicates values are greater than CCME FWAL

Bold indicates values are greater than NS Tier 1 EQS

References:
Canadian Council of Ministers of the Environment (CCME), current to 2017. Canadian Water Quality Guidelines (WQGs) for the Protection of Aquatic Life (freshwater, long term)

Table C.2

Surface Water Results - Dissolved Metals
Goldboro Gold Mine Project, Guysborough County, NS

Parameters	Units	CCME FWAL	NS Tier 1 EQS	SW-17-21								SW-18-21											
				SW-17-21	SW-17-21	SW-17-21	SW-17-21	SW-17-21	SW-17-21	SW-17-21	SW-17-21	SW-18-21	SWDUPA-21 (FD of SW-18-21)	SW-18-21	SW-18-21	SW-18-21	SW-18-21	SW-18-21	SW-18-21	SW-18-21	SW-18-21	SW-18-21	SW-18-21
Date				3/31/2021	5/20/2021	6/21/2021	7/20/2021	8/19/2021	9/22/2021	10/22/2021	11/21/2021	12/6/2021	3/30/2021	3/30/2021	5/21/2021	6/22/2021	7/21/2021	8/20/2021	9/22/2021	10/22/2021	11/21/2021	12/6/2021	
Dissolved Aluminum (Al)	ug/L	(see note) ^a	5	200	210	400	280	750	780	520	383	240	220	230	280	410	470	670	650	430	426	320	
Dissolved Antimony (Sb)	ug/L	NV	9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2	<1.0	
Dissolved Arsenic (As)	ug/L	5.0	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2	<1.0	<1.0	<1.0	1.3	2.2	5.6	3.7	2.4	1.7	<2	1.1	
Dissolved Barium (Ba)	ug/L	NV	1000	1.3	1.9	2.7	2.2	4.6	4.9	3.6	<5	2.5	1.3	1.2	2.8	3.6	3.5	4.8	4.6	3.4	<5	2.5	
Dissolved Beryllium (Be)	ug/L	NV	0.15	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<2	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<2	<0.10	
Dissolved Bismuth (Bi)	ug/L	NV	NV	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	
Dissolved Boron (B)	ug/L	1,500	1500	<50	<50	<50	<50	<50	<50	<50	<5	<50	<50	<50	<50	<50	<50	<50	<50	<50	<5	<50	
Dissolved Cadmium (Cd)	ug/L	(see note) ^b	0.09	<0.010	<0.010	0.013	<0.010	0.045	0.027	0.016	<0.09	0.025	<0.010	<0.010	0.012	0.014	<0.010	0.036	0.014	0.012	<0.09	0.021	
Dissolved Calcium (Ca)	ug/L	NV	NV	280	480	760	610	1100	1200	930	-	520	290	280	770	930	1100	1100	1100	940	-	530	
Dissolved Chromium (Cr)	ug/L	NV	8.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0	
Dissolved Cobalt (Co)	ug/L	NV	1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<1	<0.40	<0.40	<0.40	0.42	0.49	0.7	0.81	0.8	0.54	<1	<0.40	
Dissolved Copper (Cu)	ug/L	(see note) ^c	2	<0.50	<0.50	<0.50	<0.50	0.51	<0.50	<0.50	<2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.76	<0.50	<0.50	<2	<0.50	
Dissolved Iron (Fe)	ug/L	300	300	160	280	530	570	1000	1200	800	357	190	300	320	830	1200	3100	2900	2300	1700	853	820	
Dissolved Lead (Pb)	ug/L	(see note) ^d	1	<0.50	<0.50	0.69	0.62	1.3	1.4	0.86	1.1	0.55	<0.50	<0.50	0.74	0.89	1.1	1.2	1.1	0.71	1	0.54	
Dissolved Magnesium (Mg)	ug/L	NV	NV	220	290	440	350	750	790	550	-	470	290	300	520	630	670	840	860	690	-	590	
Dissolved Manganese (Mn)	ug/L	(see note) ^e	430	6	8.9	14	11	18	19	20	10	13	63	63	260	370	340	510	460	360	165	170	
Dissolved Mercury (Hg)	ug/L	0.026	0.026	<0.013	<0.013	<0.013	<0.013	0.013	0.013	<0.013	0.025	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	0.033	<0.013	0.024	<0.013	
Dissolved Molybdenum (Mo)	ug/L	73	73	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	
Dissolved Nickel (Ni)	ug/L	(see note) ^f	25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	
Dissolved Phosphorus (P)	ug/L	NV	NV	<100	<100	<100	<100	<100	<100	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	-	<100	
Dissolved Potassium (K)	ug/L	NV	NV	310	400	280	340	260	300	300	-	310	310	310	470	410	470	360	280	410	-	330	
Dissolved Selenium (Se)	ug/L	1.0	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1	<0.50	
Dissolved Silver (Ag)	ug/L	0.25	0.25	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	
Dissolved Sodium (Na)	ug/L	NV	NV	2500	3800	4100	4300	4900	4900	4500	-	3900	2700	2800	4000	4300	4600	5100	5000	4600	-	4100	
Dissolved Strontium (Sr)	ug/L	NV	21000	3.3	4.6	7.3	5.8	13	13	9.3	7	5.9	3.1	2.9	6.5	7.1	7.7	9.2	9.4	7.6	6	5.3	
Dissolved Thallium (Tl)	ug/L	0.8	0.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	
Dissolved Tin (Sn)	ug/L	NV	NV	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	
Dissolved Titanium (Ti)	ug/L	NV	NV	2.7	3.7	4.3	4.4	7.6	8.5	5.3	4	3.1	2.4	2.4	4.2	7	9.3	9.2	8.5	6.4	4	3.9	
Dissolved Uranium (U)	ug/L	15	15	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	
Dissolved Vanadium (V)	ug/L	NV	120	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	
Dissolved Zinc (Zn)	ug/L	7	7	<5.0	6.3	6.7	7.4	5.3	6.7	8.6	<5	<5.0	<5.0	5.2	<5.0	13	7.8	9.1	7.6	<5.0	<5	<5.0	

Notes:
NV - No value; FWAL - Freshwater aquatic life
→ Not applicable
nd = non detect value. Detection limits were not reported
a - Aluminum guideline for FWAL = 5 µg/L for pH <6.5 and 100 µg/L for pH ≥6.5.
b - Cadmium guideline for FWAL is 0.04 ug/L at hardness <17 mg/L, otherwise calculated as 10^(0.83[log(hardness)]-2.46)
c - Copper guideline = When water hardness is 0 to <82 mg/L, the guideline is 2 µg/L; when hardness is > 82 to < 180 mg/L equation: e 0.845[ln(hardness)] -1.465 X 0.2 µg/L is used to determine the copper guideline. At hardness >180 mg/L the guideline is 4 µg/L. Water hardness at all locations are <82 mg/L and as such, the guideline is 2 µg/L
d - Lead guideline = When water hardness is 0 to <60 mg/L, the guideline is 1ug/L; when hardness is >60 to < 180 mg/L equation: e 1.273[ln(hardness)] -4.705 ug/L is used to determine the lead guideline. At hardness >180 mg/L the guideline is 7 ug/L.
e - Manganese guideline calculated using the Manganese - Canadian Water Quality Guideline and Benchmark Calculator provided in Appendix B of the Scientific Criteria Document for the Development of the Canadian Water Quality Guidelines for the Protection of Aquatic Life. Criteria for manganese was posted December 19, 2019. All results were compared to guidelines in effect at the time of sampling.
f - Nickel guideline = When water hardness is 0 to <60 mg/L, the guideline is 25 ug/L; when hardness is > 60 to < 180 mg/L equation: e 0.76[ln(hardness)] + 1.06 ug/L is used to determine the nickel guideline. At hardness >180 mg/L the guideline is 150 ug/L.

Screening:

Shaded indicates values are greater than CCME FWAL

Bold indicates values are greater than NS Tier 1 EQS

References:

Canadian Council of Ministers of the Environment (CCME), current to 2017. Canadian Water Quality Guidelines (WQGs) for the Protection of Aquatic Life (freshwater, long term)

Table C.2

Surface Water Results - Dissolved Metals
Goldboro Gold Mine Project, Guysborough County, NS

Parameters	Units	CCME FWAL	NS Tier 1 EQS	SW-19-21									SW-20-21								
				SW-19-21	SW-19-21	SW-19-21	SW-19-21	SW-19-21	SW-19-21	SW-19-21	SW-19-21	SW-19-21	SW-20-21	SW-20-21	SW-20-21	SW-20-21	SW-20-21	SW-20-21	SW-20-21	SW-20-21	SW-20-21
Date				3/30/2021	5/21/2021	6/22/2021	7/21/2021	8/20/2021	9/22/2021	10/22/2021	11/21/2021	12/6/2021	3/30/2021	5/20/2021	6/21/2021	7/20/2021	8/20/2021	9/22/2021	10/22/2021	11/21/2021	12/6/2021
Dissolved Aluminum (Al)	ug/L	(see note) ^a	5	210	389	540	590	810	810	620	363	280	320	420	520	690	800	860	640	501	360
Dissolved Antimony (Sb)	ug/L	NV	9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2	<1.0
Dissolved Arsenic (As)	ug/L	5.0	5	<1.0	1.5	2.8	5.4	2.3	4	2.9	<2	1.1	5	9.2	15	22	12	12	10	7	3.9
Dissolved Barium (Ba)	ug/L	NV	1000	1.2	2	3.1	2.7	3.7	3.3	2.6	<5	1.5	1.9	2.3	2.8	3.5	4.3	4.5	3.7	<5	3.1
Dissolved Beryllium (Be)	ug/L	NV	0.15	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<2	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<2	<0.10
Dissolved Bismuth (Bi)	ug/L	NV	NV	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0
Dissolved Boron (B)	ug/L	1,500	1500	<50	<50	<50	<50	<50	<50	<50	<5	<50	<50	<50	<50	<50	<50	<50	<50	<5	<50
Dissolved Cadmium (Cd)	ug/L	(see note) ^b	0.09	<0.010	0.027	0.014	0.011	0.031	0.015	0.012	<0.09	0.014	<0.010	0.015	0.015	0.016	0.12	0.029	0.015	<0.09	0.022
Dissolved Calcium (Ca)	ug/L	NV	NV	380	620	890	860	1300	1100	960	-	590	420	550	680	900	1000	900	960	-	590
Dissolved Chromium (Cr)	ug/L	NV	8.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0
Dissolved Cobalt (Co)	ug/L	NV	1	<0.40	0.44	0.52	<0.40	0.63	0.52	<0.40	<1	<0.40	<0.40	<0.40	<0.40	0.54	0.54	0.59	0.56	<1	<0.40
Dissolved Copper (Cu)	ug/L	(see note) ^c	2	<0.50	0.96	0.6	<0.50	0.67	<0.50	<0.50	<2	<0.50	0.51	<0.50	0.56	0.72	1.3	0.54	0.54	<2	<0.50
Dissolved Iron (Fe)	ug/L	300	300	340	1030	1700	1800	1900	2000	1500	869	720	350	650	790	1400	1100	1400	1200	649	380
Dissolved Lead (Pb)	ug/L	(see note) ^d	1	<0.50	0.9	1.1	2	1.8	2.3	1.7	1.7	0.71	<0.50	0.73	0.77	1.3	1.3	1.2	0.85	1.3	0.63
Dissolved Magnesium (Mg)	ug/L	NV	NV	260	450	550	560	760	690	560	-	440	350	450	520	590	650	790	700	-	590
Dissolved Manganese (Mn)	ug/L	(see note) ^e	430	33	59	66	28	74	41	39	22	24	23	35	42	56	45	53	59	42	39
Dissolved Mercury (Hg)	ug/L	0.026	0.026	<0.013	<0.013	<0.013	<0.013	0.017	<0.013	<0.013	0.028	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	0.024	<0.013
Dissolved Molybdenum (Mo)	ug/L	73	73	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0
Dissolved Nickel (Ni)	ug/L	(see note) ^f	25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0
Dissolved Phosphorus (P)	ug/L	NV	NV	<100	<100	<100	<100	<100	<100	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	-	<100
Dissolved Potassium (K)	ug/L	NV	NV	230	320	460	450	270	250	310	-	140	460	480	510	510	410	370	500	-	510
Dissolved Selenium (Se)	ug/L	1.0	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1	<0.50	<0.50
Dissolved Silver (Ag)	ug/L	0.25	0.25	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10
Dissolved Sodium (Na)	ug/L	NV	NV	2600	3690	4000	4700	5200	5200	4600	-	4000	3200	4000	4500	4900	4700	4900	4700	-	4100
Dissolved Strontium (Sr)	ug/L	NV	21000	2.7	4.7	6.3	6.5	9.1	8.1	6.4	<5	4.4	4.3	6.5	7.4	8.8	9.8	11	9.6	7	6.4
Dissolved Thallium (Tl)	ug/L	0.8	0.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10
Dissolved Tin (Sn)	ug/L	NV	NV	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0
Dissolved Titanium (Ti)	ug/L	NV	NV	<2.0	6.3	7.2	6.4	9.5	7.6	6	3	3.9	3.2	6.2	7.9	13	10	10	7.6	5	6.4
Dissolved Uranium (U)	ug/L	15	15	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10
Dissolved Vanadium (V)	ug/L	NV	120	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0
Dissolved Zinc (Zn)	ug/L	7	7	<5.0	<5.0	13	7.4	6.8	6.6	<5.0	<5	<5.0	5.1	<5.0	6.6	<5.0	13	9.4	<5.0	<5	5.9

Notes:
NV - No value; FWAL - Freshwater aquatic life
-- Not applicable
nd = non detect value. Detection limits were not reported
a - Aluminum guideline for FWAL = 5 µg/L for pH <6.5 and 100 µg/L for pH ≥6.5.
b - Cadmium guideline for FWAL is 0.04 ug/L at hardness <17 mg/L, otherwise calculated as 10^(0.83[log(hardness)]-2.46)
c - Copper guideline = When water hardness is 0 to <82 mg/L, the guideline is 2 µg/L; when hardness is > 82 to < 180 mg/L equation: e 0.845[ln(hardness)] -1.465 X 0.2 µg/L is used to determine the copper guideline. At hardness >180 mg/L the guideline is 4 µg/L. Water hardness at all locations are <82 mg/L and as such, the guideline is 2 µg/L.
d - Lead guideline = When water hardness is 0 to <60 mg/L, the guideline is 1ug/L; when hardness is >60 to < 180 mg/L equation: e 1.273[ln(hardness)] -4.705 ug/L is used to determine the lead guideline. At hardness >180 mg/L the guideline is 7 ug/L.
e - Manganese guideline calculated using the Manganese - Canadian Water Quality Guideline and Benchmark Calculator provided in Appendix B of the Scientific Criteria Document for the Development of the Canadian Water Quality Guidelines for the Protection of Aquatic Life. Criteria for manganese was posted December 19, 2019. All results were compared to guidelines in effect at the time of sampling.
f - Nickel guideline = When water hardness is 0 to <60 mg/L, the guideline is 25 ug/L; when hardness is > 60 to < 180 mg/L equation: e 0.76[ln(hardness)] + 1.06 ug/L is used to determine the nickel guideline. At hardness >180 mg/L the guideline is 150 ug/L.

Screening:
Shaded indicates values are greater than CCME FWAL

Bold indicates values are greater than NS Tier 1 EQS

References:
Canadian Council of Ministers of the Environment (CCME), current to 2017. Canadian Water Quality Guidelines (WQGs) for the Protection of Aquatic Life (freshwater, long term)

Table C.4

Surface Water - Discrete Surface Water Quality Measurements
Goldboro Gold Mine Project, Guysborough County, NS

Parameter	Units	SW11									SW12							
		Date	21-May-21	21-Jun-21	20-Jul-21	19-Aug-21	21-Sep-21	21-Oct-21	21-Nov-21	21-Dec-21	21-May-21	21-Jun-21	20-Jul-21	19-Aug-21	21-Sep-21	21-Oct-21	21-Nov-21	21-Dec-21
Temperature	°C		9.61	17.34	22.07	17.77	18.27	13.53	5.59	2.26	13.66	18.44	21.6	21.76	18.5	14.17	6.89	3.83
pH	N/A		5.23	5.5	5.27	5.23	5.22	5.81	4.99	5.1	4.43	4.86	4.87	5.4	5.35	5.43	4.85	5
ORP	mV		115	73	158	222	284	246	324	297	233	213	218	264	318	370	343	309
Conductivity	uS/cm		0.029	0.064	0.021	0.034	0.05	0.043	0.054	0.054	0.013	0.013	0.013	0.019	0.043	0.033	0.033	0.043
Turbidity	NTU		0	0	0	0	1.9	51.2	0	60.07	0	0	0	0.9	15.1	0	0	2.3
DO	mg/L		8.6	5.00	5.89	3.21	3.32	4.40	2.63	4.80	8.92	8.43	6.96	6.46	6.95	6	3.09	6.56
DO%	%		53.7	53.6	67.9	34.7	109	74	118	110	87.4	92	81.1	71.9	99	90	126	116
TDS	g/L		-	-	-	0.022	0.02	0.028	0.035	0.035	-	-	-	0.012	0.028	0.021	0.023	0.028

Parameter	Units	SW13									SW14							
		Date	21-May-21	21-Jun-21	20-Jul-21	19-Aug-21	21-Sep-21	21-Oct-21	21-Nov-21	21-Dec-21	21-May-21	21-Jun-21	20-Jul-21	19-Aug-21	21-Sep-21	21-Oct-21	21-Nov-21	21-Dec-21
Temperature	°C		11.52	17.31	16.21	14.96	13.92	9.6	7.31	6.99	10.87	17.41	16.67	15.4	15.33	9.761	7.49	7.12
pH	N/A		4.48	4.39	4.6	3.14	4.23	4.97	4.68	4.66	4.54	4.89	4.97	3.95	4.63	5.32	4.45	4.59
ORP	mV		256	253	234	364	164	315	358	355	246	227	212	319	358	314	328	358
Conductivity	uS/cm		0.014	0.017	0.017	0.038	0.054	0.045	0.053	0.052	0.014	0.015	0.015	0.033	0.054	0.038	0.041	0.051
Turbidity	NTU		0	0	0	0	2.5	0	0	2.8	0	0	0	0	2.3	0	46.8	105
DO	mg/L		10.1	8.27	9.52	6.53	3.72	7.89	1.8	4.4	11.4	5.74	10.29	8.72	3.67	8.32	1.99	5.01
DO%	%		98.4	88.1	98.1	67.2	164	120	135	136	85.4	61.6	100.7	90.2	142	100	148	140
TDS	g/L		-	-	-	0.025	0.035	0.029	0.035	0.034	-	-	-	0.022	0.027	0.005	0.026	0.033

Parameter	Units	SW15									SW16							
		Date	21-May-21	21-Jun-21	20-Jul-21	19-Aug-21	21-Sep-21	21-Oct-21	21-Nov-21	21-Dec-21	21-May-21	21-Jun-21	20-Jul-21	19-Aug-21	21-Sep-21	21-Oct-21	21-Nov-21	21-Dec-21
Temperature	°C		12.43	17.54	21.71	22.72	19.23	15.61	8.14	7.33	10.06	16.73	17.91	16.6	14.17	10.75	6.25	6.76
pH	N/A		4.61	4.94	5.3	4.61	6.07	5.44	5.84	5.25	4.15	4.32	4.41	3.31	4.39	4.97	4.66	4.47
ORP	mV		250	241	214	295	365	383	257	316	294	243	215	352	391	351	376	387
Conductivity	uS/cm		0.013	0.012	0.013	0.018	0.03	0.028	0.028	0.029	0.015	0.015	0.011	0.031	0.048	0.043	0.048	0.053
Turbidity	NTU		0	0	0	0	1.5	0	0	0.4	0	0	0	0	2.2	0	30.1	16.2
DO	mg/L		8.57	6.5	9.33	6.58	6.26	6.52	5.04	4.87	7.84	5.66	7.81	7.09	6.96	7.02	3.95	5.35
DO%	%		83.1	69.8	106.2	78.8	60	95	74	104	72.9	59.9	83	74.8	155	120	148	147
TDS	g/L		-	-	-	0.012	0.02	0.018	0.019	0.019	-	-	0.02	0.02	0.032	0.028	0.033	0.034

Parameter	Units	SW17									SW18							
		Date	21-May-21	21-Jun-21	20-Jul-21	19-Aug-21	21-Sep-21	21-Oct-21	21-Nov-21	21-Dec-21	21-May-21	21-Jun-21	21-Jul-21	19-Aug-21	21-Sep-21	21-Oct-21	21-Nov-21	21-Dec-21
Temperature	°C		9.37	15.92	16.37	15.11	16.23	11.76	6.99	6.52	11.61	13.09	17.18	15.7	15.52	13.96	6.12	3.8
pH	N/A		3.5	3.69	4.37	3.2	4.28	4.89	4.45	4.52	5.17	4.46	5.38	3.81	5.07	5.54	4.93	4.96
ORP	mV		292	248	191	338	347	314	346	341	174	201	30	303	266	254	294	296
Conductivity	uS/cm		0.0015	0.016	0.07	0.034	0.063	0.048	0.054	0.054	0.017	0.018	0.001	0.034	0.043	0.046	0.064	0.049
Turbidity	NTU		2.1	45	0	0	2.1	27.5	0	81.5	0	141	0	13	430	0	0	3.6
DO	mg/L		6.2	5.84	4.39	6.79	6.43	6.56	2.74	5.84	6.88	8.2	3.54	4.49	3.84	4.05	3.02	5.02
DO%	%		56	61	46.2	69.8	162	126	148	144	65.4	79.9	37.9	48.2	117	90	121	118
TDS	g/L		-	-	-	0.022	0.04	0.031	0.035	0.035	-	-	-	0.022	0.028	0.03	0.041	0.031

Parameter	Units	SW19									SW20							
		Date	21-May-21	21-Jun-21	21-Jul-21	19-Aug-21	21-Sep-21	21-Oct-21	21-Nov-21	21-Dec-21	21-May-21	21-Jun-21	20-Jul-21	19-Aug-21	21-Sep-21	21-Oct-21	21-Nov-21	21-Dec-21
Temperature	°C		11.98	13.42	16.83	-	14.8	11.83	6.38	4.34	10.57	17.46	17.71	16.1	16.78	12.69	7.32	7.2
pH	N/A		4.62	4.56	4.3	-	4.55	4.95	4.41	4.8	4.03	5.1	4.81	4.12	4.61	5.16	4.8	4.78
ORP	mV		185	148	139	-	920	104	296	296	235	160	148	265	362	323	344	373
Conductivity	uS/cm		0.016	0.019	0.025	-	0.06	0.051	0.055	0.054	0.017	0.024	0.031	0.028	0.047	0.042	0.048	0.051
Turbidity	NTU		280	349	1000	-	84.9	0	28.6	19.6	0	0	0	0	5.8	38.7	0	35.2
DO	mg/L		5	6.8	3.86	-	0.94	2.1	2.7	5.58	8.76	9.13	4.7	6.46	5.83	6.74	1.92	5.75
DO%	%		47.6	66.2	40.7	-	146	122	150	127	76.3	59.2	4.68	67.1	144	110	129	129
TDS	g/L		-	-	-	-	0.039	0.033	0.035	0.035	-	-	-	0.018	0.03	0.027	0.031	0.033

Notes:

- Not measured



Your P.O. #: 0202
 Your Project #: GOLDBORO
 Your C.O.C. #: 819776-01-01, 819776-02-01

Attention: Bethany LeFort

Anaconda Mining Inc
 Goldboro Gold Mine
 570 Goldbrook Road
 Goldboro, NS
 Canada BOH 1L0

Report Date: 2021/04/14
 Report #: R6594512
 Version: 1 - Partial

CERTIFICATE OF ANALYSIS – PARTIAL RESULTS

BV LABS JOB #: C188219

Received: 2021/04/05, 11:32

Sample Matrix: Water
 # Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Carbonate, Bicarbonate and Hydroxide	11	N/A	2021/04/08	N/A	SM 23 4500-CO2 D
Alkalinity	10	N/A	2021/04/12	ATL SOP 00013	EPA 310.2 R1974 m
Alkalinity	1	N/A	2021/04/13	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	11	N/A	2021/04/12	ATL SOP 00014	SM 23 4500-Cl- E m
Colour	11	N/A	2021/04/12	ATL SOP 00020	SM 23 2120C m
Organic carbon - Diss (DOC) (2)	8	N/A	2021/04/07	ATL SOP 00203	SM 23 5310B m
Organic carbon - Diss (DOC) (2)	3	N/A	2021/04/08	ATL SOP 00203	SM 23 5310B m
Conductance - water	11	N/A	2021/04/08	ATL SOP 00004	SM 23 2510B m
Hardness (calculated as CaCO3)	9	N/A	2021/04/08	ATL SOP 00048	Auto Calc
Hardness (calculated as CaCO3)	2	N/A	2021/04/09	ATL SOP 00048	Auto Calc
Mercury - Dissolved (CVAA,LL)	11	2021/04/07	2021/04/08	ATL SOP 00026	EPA 245.1 R3 m
Mercury - Total (CVAA,LL)	11	2021/04/08	2021/04/09	ATL SOP 00026	EPA 245.1 R3 m
Metals Water Diss. MS (as rec'd)	9	N/A	2021/04/07	ATL SOP 00058	EPA 6020B R2 m
Metals Water Diss. MS (as rec'd)	2	N/A	2021/04/08	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	11	2021/04/07	2021/04/08	ATL SOP 00058	EPA 6020B R2 m
Ion Balance (% Difference)	11	N/A	2021/04/13	N/A	Auto Calc.
Anion and Cation Sum	11	N/A	2021/04/13	N/A	Auto Calc.
Nitrogen Ammonia - water	11	N/A	2021/04/12	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	11	N/A	2021/04/12	ATL SOP 00016	USGS I-2547-11m
Nitrogen - Nitrite	11	N/A	2021/04/12	ATL SOP 00017	SM 23 4500-NO2- B m
Nitrogen - Nitrate (as N)	11	N/A	2021/04/13	ATL SOP 00018	ASTM D3867-16
pH (3)	11	N/A	2021/04/08	ATL SOP 00003	SM 23 4500-H+ B m
Phosphorus - ortho	11	N/A	2021/04/12	ATL SOP 00021	SM 23 4500-P E m
Sat. pH and Langelier Index (@ 20C)	11	N/A	2021/04/13	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	11	N/A	2021/04/13	ATL SOP 00049	Auto Calc.
Reactive Silica	11	N/A	2021/04/12	ATL SOP 00022	EPA 366.0 m
Sulphate	11	N/A	2021/04/12	ATL SOP 00023	ASTM D516-16 m
Chlorophyll A (Sub from Bedford) (1)	11	2021/04/06	2021/04/12		
Total Dissolved Solids (TDS calc)	11	N/A	2021/04/13	N/A	Auto Calc.
Organic carbon - Total (TOC) (2)	7	N/A	2021/04/06	ATL SOP 00203	SM 23 5310B m
Organic carbon - Total (TOC) (2)	1	N/A	2021/04/07	ATL SOP 00203	SM 23 5310B m



Your P.O. #: 0202
Your Project #: GOLDBORO
Your C.O.C. #: 819776-01-01, 819776-02-01

Attention: Bethany LeFort

Anaconda Mining Inc
Goldboro Gold Mine
570 Goldbrook Road
Goldboro, NS
Canada BOH 1L0

Report Date: 2021/04/14
Report #: R6594512
Version: 1 - Partial

CERTIFICATE OF ANALYSIS – PARTIAL RESULTS

BV LABS JOB #: C188219

Received: 2021/04/05, 11:32

Sample Matrix: Water
Samples Received: 11

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Date Extracted	Date Analyzed	
Organic carbon - Total (TOC) (2)	3	N/A	2021/04/08 ATL SOP 00203	SM 23 5310B m
Turbidity	11	N/A	2021/04/07 ATL SOP 00011	EPA 180.1 R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Dalhousie Dept of Oceanography

(2) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

(3) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.



BV Labs - Partial/Rush Results

Your P.O. #: 0202
Your Project #: GOLDBORO
Your C.O.C. #: 819776-01-01, 819776-02-01

Attention: Bethany LeFort

Anaconda Mining Inc
Goldboro Gold Mine
570 Goldbrook Road
Goldboro, NS
Canada BOH 1L0

Report Date: 2021/04/14
Report #: R6594512
Version: 1 - Partial

CERTIFICATE OF ANALYSIS – PARTIAL RESULTS

BV LABS JOB #: C188219

Received: 2021/04/05, 11:32

Encryption Key

Tyler Travers
Project Manager Assistant
14 Apr 2021 16:55:05

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Melissa DiPinto, Project Manager

Email: Melissa.DIPINTO@bureauveritas.com

Phone# (902)420-0203 Ext:233

=====

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BV Labs Job #: C188219
Report Date: 2021/04/14

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0202
Sampler Initials: DB

RESULTS OF ANALYSES OF WATER

BV Labs ID		PFV278		PFV279	PFV280		PFV281		
Sampling Date		2021/04/01 09:50		2021/03/31 18:15	2021/03/30 12:40		2021/03/30 14:20		
COC Number		819776-01-01		819776-01-01	819776-01-01		819776-01-01		
	UNITS	SW-11-21	QC Batch	SW-12-21	SW-13-21	QC Batch	SW-14-21	RDL	QC Batch

Calculated Parameters									
Anion Sum	me/L	0.180	7283168	0.160	0.120	7283168	0.150	N/A	7283168
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	7283164	<1.0	<1.0	7283164	<1.0	1.0	7283164
Calculated TDS	mg/L	16	7283172	14	10	7283172	11	1.0	7283172
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	7283164	<1.0	<1.0	7283164	<1.0	1.0	7283164
Cation Sum	me/L	0.290	7283168	0.250	0.190	7283168	0.200	N/A	7283168
Hardness (CaCO ₃)	mg/L	4.2	7283166	2.9	1.7	7283166	2.0	1.0	7283166
Ion Balance (% Difference)	%	23.4	7283167	22.0	22.6	7283167	14.3	N/A	7283167
Langelier Index (@ 20C)	N/A	NC	7283170	NC	NC	7283170	NC		7283170
Langelier Index (@ 4C)	N/A	NC	7283171	NC	NC	7283171	NC		7283171
Nitrate (N)	mg/L	<0.050	7283169	<0.050	<0.050	7283169	<0.050	0.050	7283169
Saturation pH (@ 20C)	N/A	NC	7283170	NC	NC	7283170	NC		7283170
Saturation pH (@ 4C)	N/A	NC	7283171	NC	NC	7283171	NC		7283171

Inorganics									
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	7290088	<5.0	<5.0	7290088	<5.0	5.0	7290088
Dissolved Chloride (Cl ⁻)	mg/L	6.5	7290090	5.6	4.4	7290090	5.4	1.0	7290090
Colour	TCU	130	7290097	130	130	7290097	110	25	7290097
Nitrate + Nitrite (N)	mg/L	<0.050	7290102	<0.050	<0.050	7290102	<0.050	0.050	7290102
Nitrite (N)	mg/L	<0.010	7290103	<0.010	<0.010	7290103	<0.010	0.010	7290103
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	7293208	<0.050	<0.050	7293208	<0.050	0.050	7293208
Dissolved Organic Carbon (C)	mg/L	11	7285452	10	12	7288176	10	0.50	7285452
Total Organic Carbon (C)	mg/L	12	7283732	11	14	7283732	11	0.50	7283732
Orthophosphate (P)	mg/L	0.013	7290101	<0.010	<0.010	7290101	<0.010	0.010	7290101
pH	pH	5.42	7287567	4.99	4.69	7287567	4.76		7287567
Reactive Silica (SiO ₂)	mg/L	2.9	7290096	3.1	1.6	7290096	1.8	0.50	7290096
Dissolved Sulphate (SO ₄)	mg/L	<2.0	7290092	<2.0	<2.0	7290092	<2.0	2.0	7290092
Turbidity	NTU	1.2	7285432	1.3	3.1	7285432	1.4	0.10	7285432
Conductivity	uS/cm	29	7287564	27	25	7287564	25	1.0	7287564

Subcontracted Analysis									
Subcontract Parameter	N/A	ATTACHED	7283916	ATTACHED	ATTACHED	7283916	ATTACHED	N/A	7283916

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

BV Labs - Partial/Rush Results



BV Labs Job #: C188219
Report Date: 2021/04/14

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0202
Sampler Initials: DB

RESULTS OF ANALYSES OF WATER

BV Labs ID		PFV282			PFV283		PFV284		
Sampling Date		2021/03/31 10:05			2021/03/31 12:40		2021/03/31 16:00		
COC Number		819776-01-01			819776-01-01		819776-01-01		
	UNITS	SW-15-21	RDL	QC Batch	SW-16-21	QC Batch	SW-17-21	RDL	QC Batch
Calculated Parameters									
Anion Sum	me/L	0.260	N/A	7283168	0.140	7283168	0.130	N/A	7283168
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7283164	<1.0	7283164	<1.0	1.0	7283164
Calculated TDS	mg/L	17	1.0	7283172	11	7283172	10	1.0	7283172
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7283164	<1.0	7283164	<1.0	1.0	7283164
Cation Sum	me/L	0.230	N/A	7283168	0.180	7283168	0.180	N/A	7283168
Hardness (CaCO ₃)	mg/L	2.8	1.0	7283166	1.8	7283166	1.6	1.0	7283166
Ion Balance (% Difference)	%	6.12	N/A	7283167	12.5	7283167	16.1	N/A	7283167
Langelier Index (@ 20C)	N/A	NC		7283170	NC	7283170	NC		7283170
Langelier Index (@ 4C)	N/A	NC		7283171	NC	7283171	NC		7283171
Nitrate (N)	mg/L	<0.050	0.050	7283169	<0.050	7283169	<0.050	0.050	7283169
Saturation pH (@ 20C)	N/A	NC		7283170	NC	7283170	NC		7283170
Saturation pH (@ 4C)	N/A	NC		7283171	NC	7283171	NC		7283171
Inorganics									
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7290088	<5.0	7290106	<5.0	5.0	7290106
Dissolved Chloride (Cl ⁻)	mg/L	6.6	1.0	7290090	4.9	7290112	4.6	1.0	7290112
Colour	TCU	49	5.0	7290097	140	7290120	140	25	7290120
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7290102	<0.050	7290129	<0.050	0.050	7290129
Nitrite (N)	mg/L	<0.010	0.010	7290103	<0.010	7290138	<0.010	0.010	7290138
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7293208	<0.050	7293208	<0.050	0.050	7293212
Dissolved Organic Carbon (C)	mg/L	5.2	0.50	7285452	12	7285452	13	0.50	7285452
Total Organic Carbon (C)	mg/L	5.6	0.50	7283732	12	7283732	14	0.50	7288156
Orthophosphate (P)	mg/L	<0.010	0.010	7290101	<0.010	7290123	<0.010	0.010	7290123
pH	pH	5.25		7287567	4.67	7287567	4.61		7287567
Reactive Silica (SiO ₂)	mg/L	2.2	0.50	7290096	2.1	7290118	2.1	0.50	7290118
Dissolved Sulphate (SO ₄)	mg/L	3.8	2.0	7290092	<2.0	7290116	<2.0	2.0	7290116
Turbidity	NTU	0.81	0.10	7285432	1.8	7285432	2.0	0.10	7285432
Conductivity	uS/cm	26	1.0	7287564	25	7287564	25	1.0	7287564
Subcontracted Analysis									
Subcontract Parameter	N/A	ATTACHED	N/A	7283916	ATTACHED	7283916	ATTACHED	N/A	7283916
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									

BV Labs - Partial/Rush Results



BV Labs Job #: C188219
Report Date: 2021/04/14

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0202
Sampler Initials: DB

RESULTS OF ANALYSES OF WATER

BV Labs ID		PfV285		PfV286		PfV287		
Sampling Date		2021/03/30 16:45		2021/03/30 17:20		2021/03/30 11:20		
COC Number		819776-01-01		819776-01-01		819776-01-01		
	UNITS	SW-18-21	QC Batch	SW-19-21	QC Batch	SW-20-21	RDL	QC Batch
Calculated Parameters								
Anion Sum	me/L	0.140	7283168	0.140	7283168	0.210	N/A	7283168
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	7283164	<1.0	7283164	<1.0	1.0	7283164
Calculated TDS	mg/L	10	7283172	11	7283172	15	1.0	7283172
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	7283164	<1.0	7283164	<1.0	1.0	7283164
Cation Sum	me/L	0.190	7283168	0.190	7283168	0.230	N/A	7283168
Hardness (CaCO ₃)	mg/L	1.9	7283166	2.0	7283166	2.5	1.0	7283166
Ion Balance (% Difference)	%	15.2	7283167	15.2	7283167	4.55	N/A	7283167
Langelier Index (@ 20C)	N/A	NC	7283170	NC	7283170	NC		7283170
Langelier Index (@ 4C)	N/A	NC	7283171	NC	7283171	NC		7283171
Nitrate (N)	mg/L	<0.050	7283169	<0.050	7283169	<0.050	0.050	7283169
Saturation pH (@ 20C)	N/A	NC	7283170	NC	7283170	NC		7283170
Saturation pH (@ 4C)	N/A	NC	7283171	NC	7283171	NC		7283171
Inorganics								
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	7290106	<5.0	7290106	<5.0	5.0	7290106
Dissolved Chloride (Cl ⁻)	mg/L	4.8	7290112	4.8	7290112	5.6	1.0	7290112
Colour	TCU	160	7290120	180	7290120	160	25	7290120
Nitrate + Nitrite (N)	mg/L	<0.050	7290129	<0.050	7290129	<0.050	0.050	7290129
Nitrite (N)	mg/L	<0.010	7290138	<0.010	7290138	<0.010	0.010	7290138
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	7293212	<0.050	7293212	<0.050	0.050	7293212
Dissolved Organic Carbon (C)	mg/L	14	7285452	13	7288176	13	0.50	7285452
Total Organic Carbon (C)	mg/L	14	7283732	15	7288156	13	0.50	7288156
Orthophosphate (P)	mg/L	<0.010	7290123	0.047	7290123	<0.010	0.010	7290123
pH	pH	4.71	7287567	4.72	7287567	4.79		7287567
Reactive Silica (SiO ₂)	mg/L	1.7	7290118	1.7	7290118	2.6	0.50	7290118
Dissolved Sulphate (SO ₄)	mg/L	<2.0	7290116	<2.0	7290116	2.4	2.0	7290116
Turbidity	NTU	1.7	7285432	2.1	7285432	1.7	0.10	7285432
Conductivity	uS/cm	24	7287564	24	7287564	27	1.0	7287564
Subcontracted Analysis								
Subcontract Parameter	N/A	ATTACHED	7283916	ATTACHED	7283916	ATTACHED	N/A	7283916
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable								

BV Labs - Partial/Rush Results



BV Labs Job #: C188219
Report Date: 2021/04/14

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0202
Sampler Initials: DB

RESULTS OF ANALYSES OF WATER

BV Labs ID		PFV305		
Sampling Date		2021/03/30 16:45		
COC Number		819776-02-01		
	UNITS	SWDUPA-21	RDL	QC Batch
Calculated Parameters				
Anion Sum	me/L	0.130	N/A	7283168
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7283164
Calculated TDS	mg/L	11	1.0	7283172
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7283164
Cation Sum	me/L	0.200	N/A	7283168
Hardness (CaCO ₃)	mg/L	1.9	1.0	7283166
Ion Balance (% Difference)	%	21.2	N/A	7283167
Langelier Index (@ 20C)	N/A	NC		7283170
Langelier Index (@ 4C)	N/A	NC		7283171
Nitrate (N)	mg/L	<0.050	0.050	7283169
Saturation pH (@ 20C)	N/A	NC		7283170
Saturation pH (@ 4C)	N/A	NC		7283171
Inorganics				
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7290106
Dissolved Chloride (Cl ⁻)	mg/L	4.7	1.0	7290112
Colour	TCU	160	25	7290120
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7290129
Nitrite (N)	mg/L	<0.010	0.010	7290138
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7293212
Dissolved Organic Carbon (C)	mg/L	14	0.50	7285452
Total Organic Carbon (C)	mg/L	14	0.50	7283732
Orthophosphate (P)	mg/L	<0.010	0.010	7290123
pH	pH	4.72		7287567
Reactive Silica (SiO ₂)	mg/L	1.8	0.50	7290118
Dissolved Sulphate (SO ₄)	mg/L	<2.0	2.0	7290116
Turbidity	NTU	1.7	0.10	7285432
Conductivity	uS/cm	24	1.0	7287564
Subcontracted Analysis				
Subcontract Parameter	N/A	ATTACHED	N/A	7283916
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable				



BV Labs Job #: C188219
Report Date: 2021/04/14

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0202
Sampler Initials: DB

MERCURY BY COLD VAPOUR AA (WATER)

BV Labs ID		PFV278	PFV279	PFV280	PFV281	PFV282	PFV283		
Sampling Date		2021/04/01 09:50	2021/03/31 18:15	2021/03/30 12:40	2021/03/30 14:20	2021/03/31 10:05	2021/03/31 12:40		
COC Number		819776-01-01	819776-01-01	819776-01-01	819776-01-01	819776-01-01	819776-01-01		
	UNITS	SW-11-21	SW-12-21	SW-13-21	SW-14-21	SW-15-21	SW-16-21	RDL	QC Batch

Metals									
Dissolved Mercury (Hg)	ug/L	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	0.013	7285595
Total Mercury (Hg)	ug/L	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	0.013	7287602
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									

BV Labs ID		PFV284	PFV285	PFV286	PFV287	PFV305		
Sampling Date		2021/03/31 16:00	2021/03/30 16:45	2021/03/30 17:20	2021/03/30 11:20	2021/03/30 16:45		
COC Number		819776-01-01	819776-01-01	819776-01-01	819776-01-01	819776-02-01		
	UNITS	SW-17-21	SW-18-21	SW-19-21	SW-20-21	SWDUPA-21	RDL	QC Batch

Metals								
Dissolved Mercury (Hg)	ug/L	<0.013	<0.013	<0.013	<0.013	<0.013	0.013	7285595
Total Mercury (Hg)	ug/L	<0.013	<0.013	<0.013	<0.013	<0.013	0.013	7287602
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BV Labs Job #: C188219
Report Date: 2021/04/14

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0202
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PFV278		PFV279	PFV280		PFV281		
Sampling Date		2021/04/01 09:50		2021/03/31 18:15	2021/03/30 12:40		2021/03/30 14:20		
COC Number		819776-01-01		819776-01-01	819776-01-01		819776-01-01		
	UNITS	SW-11-21	QC Batch	SW-12-21	SW-13-21	QC Batch	SW-14-21	RDL	QC Batch

Metals									
Dissolved Aluminum (Al)	ug/L	210	7285365	240	190	7285365	150	5.0	7285365
Total Aluminum (Al)	mg/L	0.219	7285229	0.292	0.232	7285397	0.163	0.0050	7285229
Dissolved Antimony (Sb)	ug/L	<1.0	7285365	<1.0	<1.0	7285365	<1.0	1.0	7285365
Total Antimony (Sb)	mg/L	<0.0010	7285229	<0.0010	<0.0010	7285397	<0.0010	0.0010	7285229
Dissolved Arsenic (As)	ug/L	26	7285365	5.4	1.1	7285365	<1.0	1.0	7285365
Total Arsenic (As)	mg/L	0.0310	7285229	0.0056	0.0014	7285397	<0.0010	0.0010	7285229
Dissolved Barium (Ba)	ug/L	2.2	7285365	2.2	1.3	7285365	1.6	1.0	7285365
Total Barium (Ba)	mg/L	0.0027	7285229	0.0020	0.0013	7285397	0.0015	0.0010	7285229
Dissolved Beryllium (Be)	ug/L	<1.0	7285365	<1.0	<1.0	7285365	<1.0	1.0	7285365
Total Beryllium (Be)	mg/L	<0.0010	7285229	<0.0010	<0.0010	7285397	<0.0010	0.0010	7285229
Dissolved Bismuth (Bi)	ug/L	<2.0	7285365	<2.0	<2.0	7285365	<2.0	2.0	7285365
Total Bismuth (Bi)	mg/L	<0.0020	7285229	<0.0020	<0.0020	7285397	<0.0020	0.0020	7285229
Dissolved Boron (B)	ug/L	<50	7285365	<50	<50	7285365	<50	50	7285365
Total Boron (B)	mg/L	<0.050	7285229	<0.050	<0.050	7285397	<0.050	0.050	7285229
Dissolved Cadmium (Cd)	ug/L	0.012	7285365	0.012	<0.010	7285365	<0.010	0.010	7285365
Total Cadmium (Cd)	mg/L	0.000011	7285229	<0.000010	<0.000010	7285397	<0.000010	0.000010	7285229
Dissolved Calcium (Ca)	ug/L	950	7285365	500	290	7285365	370	100	7285365
Total Calcium (Ca)	mg/L	0.90	7285229	0.50	0.30	7285397	0.37	0.10	7285229
Dissolved Chromium (Cr)	ug/L	<1.0	7285365	<1.0	<1.0	7285365	<1.0	1.0	7285365
Total Chromium (Cr)	mg/L	<0.0010	7285229	<0.0010	<0.0010	7285397	<0.0010	0.0010	7285229
Dissolved Cobalt (Co)	ug/L	<0.40	7285365	<0.40	<0.40	7285365	<0.40	0.40	7285365
Total Cobalt (Co)	mg/L	<0.00040	7285229	<0.00040	<0.00040	7285397	<0.00040	0.00040	7285229
Dissolved Copper (Cu)	ug/L	<0.50	7285365	<0.50	<0.50	7285365	<0.50	0.50	7285365
Total Copper (Cu)	mg/L	<0.00050	7285229	<0.00050	<0.00050	7285397	<0.00050	0.00050	7285229
Dissolved Iron (Fe)	ug/L	300	7285365	270	220	7285365	160	50	7285365
Total Iron (Fe)	mg/L	0.359	7285229	0.323	0.262	7285397	0.195	0.050	7285229
Dissolved Lead (Pb)	ug/L	<0.50	7285365	<0.50	<0.50	7285365	<0.50	0.50	7285365
Total Lead (Pb)	mg/L	<0.00050	7285229	<0.00050	<0.00050	7285397	<0.00050	0.00050	7285229
Dissolved Magnesium (Mg)	ug/L	450	7285365	390	240	7285365	270	100	7285365
Total Magnesium (Mg)	mg/L	0.46	7285229	0.39	0.27	7285397	0.28	0.10	7285229
Dissolved Manganese (Mn)	ug/L	30	7285365	16	22	7285365	16	2.0	7285365
Total Manganese (Mn)	mg/L	0.0304	7285229	0.0163	0.0235	7285397	0.0176	0.0020	7285229
Dissolved Molybdenum (Mo)	ug/L	<2.0	7285365	<2.0	<2.0	7285365	<2.0	2.0	7285365
Total Molybdenum (Mo)	mg/L	<0.0020	7285229	<0.0020	<0.0020	7285397	<0.0020	0.0020	7285229

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

BV Labs - Partial/Rush Results



BV Labs Job #: C188219
Report Date: 2021/04/14

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0202
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PFV278		PFV279	PFV280		PFV281		
Sampling Date		2021/04/01 09:50		2021/03/31 18:15	2021/03/30 12:40		2021/03/30 14:20		
COC Number		819776-01-01		819776-01-01	819776-01-01		819776-01-01		
	UNITS	SW-11-21	QC Batch	SW-12-21	SW-13-21	QC Batch	SW-14-21	RDL	QC Batch
Dissolved Nickel (Ni)	ug/L	<2.0	7285365	<2.0	<2.0	7285365	<2.0	2.0	7285365
Total Nickel (Ni)	mg/L	<0.0020	7285229	<0.0020	<0.0020	7285397	<0.0020	0.0020	7285229
Dissolved Phosphorus (P)	ug/L	<100	7285365	<100	<100	7285365	<100	100	7285365
Total Phosphorus (P)	mg/L	<0.10	7285229	<0.10	<0.10	7285397	<0.10	0.10	7285229
Dissolved Potassium (K)	ug/L	460	7285365	290	320	7285365	270	100	7285365
Total Potassium (K)	mg/L	0.44	7285229	0.28	0.31	7285397	0.27	0.10	7285229
Dissolved Selenium (Se)	ug/L	<0.50	7285365	<0.50	<0.50	7285365	<0.50	0.50	7285365
Total Selenium (Se)	mg/L	<0.00050	7285229	<0.00050	<0.00050	7285397	<0.00050	0.00050	7285229
Dissolved Silver (Ag)	ug/L	<0.10	7285365	<0.10	<0.10	7285365	<0.10	0.10	7285365
Total Silver (Ag)	mg/L	<0.00010	7285229	<0.00010	<0.00010	7285397	<0.00010	0.00010	7285229
Dissolved Sodium (Na)	ug/L	4100	7285365	3800	2800	7285365	3000	100	7285365
Total Sodium (Na)	mg/L	3.98	7285229	3.55	2.93	7285397	3.09	0.10	7285229
Dissolved Strontium (Sr)	ug/L	7.5	7285365	5.1	3.4	7285365	3.9	2.0	7285365
Total Strontium (Sr)	mg/L	0.0074	7285229	0.0054	0.0035	7285397	0.0037	0.0020	7285229
Dissolved Thallium (Tl)	ug/L	<0.10	7285365	<0.10	<0.10	7285365	<0.10	0.10	7285365
Total Thallium (Tl)	mg/L	<0.00010	7285229	<0.00010	<0.00010	7285397	<0.00010	0.00010	7285229
Dissolved Tin (Sn)	ug/L	<2.0	7285365	<2.0	<2.0	7285365	<2.0	2.0	7285365
Total Tin (Sn)	mg/L	<0.0020	7285229	<0.0020	<0.0020	7285397	<0.0020	0.0020	7285229
Dissolved Titanium (Ti)	ug/L	<2.0	7285365	2.5	2.3	7285365	<2.0	2.0	7285365
Total Titanium (Ti)	mg/L	0.0028	7285229	0.0040	0.0081	7285397	0.0028	0.0020	7285229
Dissolved Uranium (U)	ug/L	<0.10	7285365	<0.10	<0.10	7285365	<0.10	0.10	7285365
Total Uranium (U)	mg/L	<0.00010	7285229	<0.00010	<0.00010	7285397	<0.00010	0.00010	7285229
Dissolved Vanadium (V)	ug/L	<2.0	7285365	<2.0	<2.0	7285365	<2.0	2.0	7285365
Total Vanadium (V)	mg/L	<0.0020	7285229	<0.0020	<0.0020	7285397	<0.0020	0.0020	7285229
Dissolved Zinc (Zn)	ug/L	<5.0	7285365	<5.0	<5.0	7285365	<5.0	5.0	7285365
Total Zinc (Zn)	mg/L	<0.0050	7285229	<0.0050	<0.0050	7285397	<0.0050	0.0050	7285229
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BV Labs Job #: C188219
Report Date: 2021/04/14

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0202
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PFV282		PFV283		PFV284	PFV285		
Sampling Date		2021/03/31 10:05		2021/03/31 12:40		2021/03/31 16:00	2021/03/30 16:45		
COC Number		819776-01-01		819776-01-01		819776-01-01	819776-01-01		
	UNITS	SW-15-21	QC Batch	SW-16-21	QC Batch	SW-17-21	SW-18-21	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	110	7285365	180	7285365	200	220	5.0	7285365
Total Aluminum (Al)	mg/L	0.135	7285397	0.205	7285397	0.234	0.253	0.0050	7285229
Dissolved Antimony (Sb)	ug/L	<1.0	7285365	<1.0	7285365	<1.0	<1.0	1.0	7285365
Total Antimony (Sb)	mg/L	<0.0010	7285397	<0.0010	7285397	<0.0010	<0.0010	0.0010	7285229
Dissolved Arsenic (As)	ug/L	<1.0	7285365	<1.0	7285365	<1.0	<1.0	1.0	7285365
Total Arsenic (As)	mg/L	<0.0010	7285397	<0.0010	7285397	<0.0010	<0.0010	0.0010	7285229
Dissolved Barium (Ba)	ug/L	2.1	7285365	1.4	7285365	1.3	1.3	1.0	7285365
Total Barium (Ba)	mg/L	0.0020	7285397	0.0014	7285397	0.0013	0.0014	0.0010	7285229
Dissolved Beryllium (Be)	ug/L	<1.0	7285365	<1.0	7285365	<1.0	<1.0	1.0	7285365
Total Beryllium (Be)	mg/L	<0.0010	7285397	<0.0010	7285397	<0.0010	<0.0010	0.0010	7285229
Dissolved Bismuth (Bi)	ug/L	<2.0	7285365	<2.0	7285365	<2.0	<2.0	2.0	7285365
Total Bismuth (Bi)	mg/L	<0.0020	7285397	<0.0020	7285397	<0.0020	<0.0020	0.0020	7285229
Dissolved Boron (B)	ug/L	<50	7285365	<50	7285365	<50	<50	50	7285365
Total Boron (B)	mg/L	<0.050	7285397	<0.050	7285397	<0.050	<0.050	0.050	7285229
Dissolved Cadmium (Cd)	ug/L	0.062	7295889	<0.010	7285365	<0.010	<0.010	0.010	7285365
Total Cadmium (Cd)	mg/L	0.000024	7285397	<0.000010	7285397	<0.000010	0.000014	0.000010	7285229
Dissolved Calcium (Ca)	ug/L	430	7285365	310	7285365	280	290	100	7285365
Total Calcium (Ca)	mg/L	0.45	7285397	0.33	7285397	0.27	0.27	0.10	7285229
Dissolved Chromium (Cr)	ug/L	<1.0	7285365	<1.0	7285365	<1.0	<1.0	1.0	7285365
Total Chromium (Cr)	mg/L	<0.0010	7285397	<0.0010	7285397	<0.0010	<0.0010	0.0010	7285229
Dissolved Cobalt (Co)	ug/L	<0.40	7285365	<0.40	7285365	<0.40	<0.40	0.40	7285365
Total Cobalt (Co)	mg/L	<0.00040	7285397	<0.00040	7285397	<0.00040	<0.00040	0.00040	7285229
Dissolved Copper (Cu)	ug/L	<0.50	7285365	<0.50	7285365	<0.50	<0.50	0.50	7285365
Total Copper (Cu)	mg/L	<0.00050	7285397	<0.00050	7285397	<0.00050	0.00051	0.00050	7285229
Dissolved Iron (Fe)	ug/L	130	7285365	180	7285365	160	300	50	7285365
Total Iron (Fe)	mg/L	0.208	7285397	0.206	7285397	0.187	0.354	0.050	7285229
Dissolved Lead (Pb)	ug/L	<0.50	7285365	<0.50	7285365	<0.50	<0.50	0.50	7285365
Total Lead (Pb)	mg/L	<0.00050	7285397	<0.00050	7285397	<0.00050	<0.00050	0.00050	7285229
Dissolved Magnesium (Mg)	ug/L	410	7285365	250	7285365	220	290	100	7285365
Total Magnesium (Mg)	mg/L	0.42	7285397	0.29	7285397	0.23	0.32	0.10	7285229
Dissolved Manganese (Mn)	ug/L	20	7285365	6.6	7285365	6.0	63	2.0	7285365
Total Manganese (Mn)	mg/L	0.0219	7285397	0.0067	7285397	0.0062	0.0659	0.0020	7285229
Dissolved Molybdenum (Mo)	ug/L	<2.0	7285365	<2.0	7285365	<2.0	<2.0	2.0	7285365
Total Molybdenum (Mo)	mg/L	<0.0020	7285397	<0.0020	7285397	<0.0020	<0.0020	0.0020	7285229
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									

BV Labs - Partial/Rush Results



BV Labs Job #: C188219
Report Date: 2021/04/14

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0202
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PFV282		PFV283		PFV284	PFV285		
Sampling Date		2021/03/31 10:05		2021/03/31 12:40		2021/03/31 16:00	2021/03/30 16:45		
COC Number		819776-01-01		819776-01-01		819776-01-01	819776-01-01		
	UNITS	SW-15-21	QC Batch	SW-16-21	QC Batch	SW-17-21	SW-18-21	RDL	QC Batch
Dissolved Nickel (Ni)	ug/L	<2.0	7285365	<2.0	7285365	<2.0	<2.0	2.0	7285365
Total Nickel (Ni)	mg/L	<0.0020	7285397	<0.0020	7285397	<0.0020	<0.0020	0.0020	7285229
Dissolved Phosphorus (P)	ug/L	<100	7285365	<100	7285365	<100	<100	100	7285365
Total Phosphorus (P)	mg/L	<0.10	7285397	<0.10	7285397	<0.10	<0.10	0.10	7285229
Dissolved Potassium (K)	ug/L	310	7285365	270	7285365	310	310	100	7285365
Total Potassium (K)	mg/L	0.31	7285397	0.28	7285397	0.28	0.32	0.10	7285229
Dissolved Selenium (Se)	ug/L	<0.50	7285365	<0.50	7285365	<0.50	<0.50	0.50	7285365
Total Selenium (Se)	mg/L	<0.00050	7285397	<0.00050	7285397	<0.00050	<0.00050	0.00050	7285229
Dissolved Silver (Ag)	ug/L	<0.10	7285365	<0.10	7285365	<0.10	<0.10	0.10	7285365
Total Silver (Ag)	mg/L	<0.00010	7285397	<0.00010	7285397	<0.00010	<0.00010	0.00010	7285229
Dissolved Sodium (Na)	ug/L	3500	7285365	2600	7285365	2500	2700	100	7285365
Total Sodium (Na)	mg/L	3.55	7285397	2.77	7285397	2.61	2.88	0.10	7285229
Dissolved Strontium (Sr)	ug/L	4.7	7285365	3.5	7285365	3.3	3.1	2.0	7285365
Total Strontium (Sr)	mg/L	0.0050	7285397	0.0035	7285397	0.0029	0.0027	0.0020	7285229
Dissolved Thallium (Tl)	ug/L	<0.10	7285365	<0.10	7285365	<0.10	<0.10	0.10	7285365
Total Thallium (Tl)	mg/L	<0.00010	7285397	<0.00010	7285397	<0.00010	<0.00010	0.00010	7285229
Dissolved Tin (Sn)	ug/L	<2.0	7285365	<2.0	7285365	<2.0	<2.0	2.0	7285365
Total Tin (Sn)	mg/L	<0.0020	7285397	<0.0020	7285397	<0.0020	<0.0020	0.0020	7285229
Dissolved Titanium (Ti)	ug/L	<2.0	7285365	2.1	7285365	2.7	2.4	2.0	7285365
Total Titanium (Ti)	mg/L	<0.0020	7285397	0.0029	7285397	0.0037	0.0039	0.0020	7285229
Dissolved Uranium (U)	ug/L	<0.10	7285365	<0.10	7285365	<0.10	<0.10	0.10	7285365
Total Uranium (U)	mg/L	<0.00010	7285397	<0.00010	7285397	<0.00010	<0.00010	0.00010	7285229
Dissolved Vanadium (V)	ug/L	<2.0	7285365	<2.0	7285365	<2.0	<2.0	2.0	7285365
Total Vanadium (V)	mg/L	<0.0020	7285397	<0.0020	7285397	<0.0020	<0.0020	0.0020	7285229
Dissolved Zinc (Zn)	ug/L	<5.0	7285365	<5.0	7285365	<5.0	<5.0	5.0	7285365
Total Zinc (Zn)	mg/L	<0.0050	7285397	<0.0050	7285397	<0.0050	<0.0050	0.0050	7285229
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									

BV Labs - Partial/Rush Results



BV Labs Job #: C188219
Report Date: 2021/04/14

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0202
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PFV286		PFV287		PFV305		
Sampling Date		2021/03/30 17:20		2021/03/30 11:20		2021/03/30 16:45		
COC Number		819776-01-01		819776-01-01		819776-02-01		
	UNITS	SW-19-21	QC Batch	SW-20-21	QC Batch	SWDUPA-21	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	210	7285365	320	7287587	230	5.0	7287587
Total Aluminum (Al)	mg/L	0.229	7285229	0.405	7285397	0.240	0.0050	7285229
Dissolved Antimony (Sb)	ug/L	<1.0	7285365	<1.0	7287587	<1.0	1.0	7287587
Total Antimony (Sb)	mg/L	<0.0010	7285229	<0.0010	7285397	<0.0010	0.0010	7285229
Dissolved Arsenic (As)	ug/L	<1.0	7285365	5.0	7287587	<1.0	1.0	7287587
Total Arsenic (As)	mg/L	<0.0010	7285229	0.0057	7285397	<0.0010	0.0010	7285229
Dissolved Barium (Ba)	ug/L	1.2	7285365	1.9	7287587	1.2	1.0	7287587
Total Barium (Ba)	mg/L	0.0011	7285229	0.0021	7285397	0.0013	0.0010	7285229
Dissolved Beryllium (Be)	ug/L	<1.0	7285365	<1.0	7287587	<1.0	1.0	7287587
Total Beryllium (Be)	mg/L	<0.0010	7285229	<0.0010	7285397	<0.0010	0.0010	7285229
Dissolved Bismuth (Bi)	ug/L	<2.0	7285365	<2.0	7287587	<2.0	2.0	7287587
Total Bismuth (Bi)	mg/L	<0.0020	7285229	<0.0020	7285397	<0.0020	0.0020	7285229
Dissolved Boron (B)	ug/L	<50	7285365	<50	7287587	<50	50	7287587
Total Boron (B)	mg/L	<0.050	7285229	<0.050	7285397	<0.050	0.050	7285229
Dissolved Cadmium (Cd)	ug/L	<0.010	7285365	<0.010	7287587	<0.010	0.010	7287587
Total Cadmium (Cd)	mg/L	<0.000010	7285229	0.000012	7285397	<0.000010	0.000010	7285229
Dissolved Calcium (Ca)	ug/L	380	7285365	420	7287587	280	100	7287587
Total Calcium (Ca)	mg/L	0.40	7285229	0.45	7285397	0.26	0.10	7285229
Dissolved Chromium (Cr)	ug/L	<1.0	7285365	<1.0	7287587	<1.0	1.0	7287587
Total Chromium (Cr)	mg/L	<0.0010	7285229	<0.0010	7285397	<0.0010	0.0010	7285229
Dissolved Cobalt (Co)	ug/L	<0.40	7285365	<0.40	7287587	<0.40	0.40	7287587
Total Cobalt (Co)	mg/L	<0.00040	7285229	<0.00040	7285397	<0.00040	0.00040	7285229
Dissolved Copper (Cu)	ug/L	<0.50	7285365	0.51	7287587	<0.50	0.50	7287587
Total Copper (Cu)	mg/L	<0.00050	7285229	0.00054	7285397	<0.00050	0.00050	7285229
Dissolved Iron (Fe)	ug/L	340	7285365	350	7287587	320	50	7287587
Total Iron (Fe)	mg/L	0.389	7285229	0.448	7285397	0.351	0.050	7285229
Dissolved Lead (Pb)	ug/L	<0.50	7285365	<0.50	7287587	<0.50	0.50	7287587
Total Lead (Pb)	mg/L	<0.00050	7285229	0.00064	7285397	<0.00050	0.00050	7285229
Dissolved Magnesium (Mg)	ug/L	260	7285365	350	7287587	300	100	7287587
Total Magnesium (Mg)	mg/L	0.28	7285229	0.37	7285397	0.32	0.10	7285229
Dissolved Manganese (Mn)	ug/L	33	7285365	23	7287587	63	2.0	7287587
Total Manganese (Mn)	mg/L	0.0337	7285229	0.0231	7285397	0.0672	0.0020	7285229
Dissolved Molybdenum (Mo)	ug/L	<2.0	7285365	<2.0	7287587	<2.0	2.0	7287587
Total Molybdenum (Mo)	mg/L	<0.0020	7285229	<0.0020	7285397	<0.0020	0.0020	7285229
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								

BV Labs - Partial/Rush Results



BV Labs Job #: C188219
Report Date: 2021/04/14

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0202
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PFV286		PFV287		PFV305		
Sampling Date		2021/03/30 17:20		2021/03/30 11:20		2021/03/30 16:45		
COC Number		819776-01-01		819776-01-01		819776-02-01		
	UNITS	SW-19-21	QC Batch	SW-20-21	QC Batch	SWDUPA-21	RDL	QC Batch
Dissolved Nickel (Ni)	ug/L	<2.0	7285365	<2.0	7287587	<2.0	2.0	7287587
Total Nickel (Ni)	mg/L	<0.0020	7285229	<0.0020	7285397	<0.0020	0.0020	7285229
Dissolved Phosphorus (P)	ug/L	<100	7285365	<100	7287587	<100	100	7287587
Total Phosphorus (P)	mg/L	<0.10	7285229	<0.10	7285397	<0.10	0.10	7285229
Dissolved Potassium (K)	ug/L	230	7285365	460	7287587	310	100	7287587
Total Potassium (K)	mg/L	0.24	7285229	0.48	7285397	0.32	0.10	7285229
Dissolved Selenium (Se)	ug/L	<0.50	7285365	<0.50	7287587	<0.50	0.50	7287587
Total Selenium (Se)	mg/L	<0.00050	7285229	<0.00050	7285397	<0.00050	0.00050	7285229
Dissolved Silver (Ag)	ug/L	<0.10	7285365	<0.10	7287587	<0.10	0.10	7287587
Total Silver (Ag)	mg/L	<0.00010	7285229	<0.00010	7285397	<0.00010	0.00010	7285229
Dissolved Sodium (Na)	ug/L	2600	7285365	3200	7287587	2800	100	7287587
Total Sodium (Na)	mg/L	2.83	7285229	3.39	7285397	2.87	0.10	7285229
Dissolved Strontium (Sr)	ug/L	2.7	7285365	4.3	7287587	2.9	2.0	7287587
Total Strontium (Sr)	mg/L	0.0028	7285229	0.0046	7285397	0.0028	0.0020	7285229
Dissolved Thallium (Tl)	ug/L	<0.10	7285365	<0.10	7287587	<0.10	0.10	7287587
Total Thallium (Tl)	mg/L	<0.00010	7285229	<0.00010	7285397	<0.00010	0.00010	7285229
Dissolved Tin (Sn)	ug/L	<2.0	7285365	<2.0	7287587	<2.0	2.0	7287587
Total Tin (Sn)	mg/L	<0.0020	7285229	<0.0020	7285397	<0.0020	0.0020	7285229
Dissolved Titanium (Ti)	ug/L	<2.0	7285365	3.2	7287587	2.4	2.0	7287587
Total Titanium (Ti)	mg/L	0.0030	7285229	0.0068	7285397	0.0031	0.0020	7285229
Dissolved Uranium (U)	ug/L	<0.10	7285365	<0.10	7287587	<0.10	0.10	7287587
Total Uranium (U)	mg/L	<0.00010	7285229	<0.00010	7285397	<0.00010	0.00010	7285229
Dissolved Vanadium (V)	ug/L	<2.0	7285365	<2.0	7287587	<2.0	2.0	7287587
Total Vanadium (V)	mg/L	<0.0020	7285229	<0.0020	7285397	<0.0020	0.0020	7285229
Dissolved Zinc (Zn)	ug/L	<5.0	7285365	5.1	7287587	5.2	5.0	7287587
Total Zinc (Zn)	mg/L	<0.0050	7285229	<0.0050	7285397	<0.0050	0.0050	7285229
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								

BV Labs - Partial/Rush Results



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.7°C
Package 2	-0.3°C

Sample PFV278 [SW-11-21] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent. RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PFV279 [SW-12-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PFV280 [SW-13-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PFV281 [SW-14-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PFV282 [SW-15-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.
Dissolved versus Total Metals (Cd): Re-analysis of new dissolved metals aliquot from client supplied bottle confirmed original results.

Sample PFV283 [SW-16-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PFV284 [SW-17-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PFV285 [SW-18-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PFV286 [SW-19-21] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent. RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PFV305 [SWDUPA-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PFV282, Metals Water Diss. MS (as rec'd): Test repeated.

Results relate only to the items tested.



BV Labs Job #: C188219
Report Date: 2021/04/14

Anaconda Mining Inc
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QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
	7283732	YLG	Matrix Spike	Total Organic Carbon (C)	2021/04/06		95	%	85 - 115
	7283732	YLG	Spiked Blank	Total Organic Carbon (C)	2021/04/06		96	%	80 - 120
	7283732	YLG	Method Blank	Total Organic Carbon (C)	2021/04/06	<0.50		mg/L	
	7283732	YLG	RPD	Total Organic Carbon (C)	2021/04/06	1.6		%	15
	7285229	BAN	Matrix Spike	Total Aluminum (Al)	2021/04/07		93	%	80 - 120
				Total Antimony (Sb)	2021/04/07		100	%	80 - 120
				Total Arsenic (As)	2021/04/07		92	%	80 - 120
				Total Barium (Ba)	2021/04/07		94	%	80 - 120
				Total Beryllium (Be)	2021/04/07		94	%	80 - 120
				Total Bismuth (Bi)	2021/04/07		96	%	80 - 120
				Total Boron (B)	2021/04/07		95	%	80 - 120
				Total Cadmium (Cd)	2021/04/07		92	%	80 - 120
				Total Calcium (Ca)	2021/04/07		96	%	80 - 120
				Total Chromium (Cr)	2021/04/07		93	%	80 - 120
				Total Cobalt (Co)	2021/04/07		93	%	80 - 120
				Total Copper (Cu)	2021/04/07		91	%	80 - 120
				Total Iron (Fe)	2021/04/07		98	%	80 - 120
				Total Lead (Pb)	2021/04/07		94	%	80 - 120
				Total Magnesium (Mg)	2021/04/07		98	%	80 - 120
				Total Manganese (Mn)	2021/04/07		93	%	80 - 120
				Total Molybdenum (Mo)	2021/04/07		100	%	80 - 120
				Total Nickel (Ni)	2021/04/07		96	%	80 - 120
				Total Phosphorus (P)	2021/04/07		98	%	80 - 120
				Total Potassium (K)	2021/04/07		94	%	80 - 120
				Total Selenium (Se)	2021/04/07		93	%	80 - 120
				Total Silver (Ag)	2021/04/07		93	%	80 - 120
				Total Sodium (Na)	2021/04/07		99	%	80 - 120
				Total Strontium (Sr)	2021/04/07		94	%	80 - 120
				Total Thallium (Tl)	2021/04/07		97	%	80 - 120
				Total Tin (Sn)	2021/04/07		99	%	80 - 120
				Total Titanium (Ti)	2021/04/07		97	%	80 - 120
				Total Uranium (U)	2021/04/07		100	%	80 - 120
				Total Vanadium (V)	2021/04/07		96	%	80 - 120
				Total Zinc (Zn)	2021/04/07		94	%	80 - 120
	7285229	BAN	Spiked Blank	Total Aluminum (Al)	2021/04/07		97	%	80 - 120
				Total Antimony (Sb)	2021/04/07		99	%	80 - 120
				Total Arsenic (As)	2021/04/07		93	%	80 - 120
				Total Barium (Ba)	2021/04/07		98	%	80 - 120
				Total Beryllium (Be)	2021/04/07		97	%	80 - 120
				Total Bismuth (Bi)	2021/04/07		98	%	80 - 120
				Total Boron (B)	2021/04/07		98	%	80 - 120
				Total Cadmium (Cd)	2021/04/07		95	%	80 - 120
				Total Calcium (Ca)	2021/04/07		98	%	80 - 120
				Total Chromium (Cr)	2021/04/07		95	%	80 - 120
				Total Cobalt (Co)	2021/04/07		95	%	80 - 120
				Total Copper (Cu)	2021/04/07		92	%	80 - 120
				Total Iron (Fe)	2021/04/07		99	%	80 - 120
				Total Lead (Pb)	2021/04/07		96	%	80 - 120
				Total Magnesium (Mg)	2021/04/07		99	%	80 - 120
				Total Manganese (Mn)	2021/04/07		98	%	80 - 120
				Total Molybdenum (Mo)	2021/04/07		102	%	80 - 120
				Total Nickel (Ni)	2021/04/07		97	%	80 - 120
				Total Phosphorus (P)	2021/04/07		100	%	80 - 120

BV Labs - Partial/Rush Results



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Anaconda Mining Inc
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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7285229	BAN	Method Blank		Total Potassium (K)	2021/04/07		98	%	80 - 120
				Total Selenium (Se)	2021/04/07		95	%	80 - 120
				Total Silver (Ag)	2021/04/07		94	%	80 - 120
				Total Sodium (Na)	2021/04/07		100	%	80 - 120
				Total Strontium (Sr)	2021/04/07		98	%	80 - 120
				Total Thallium (Tl)	2021/04/07		99	%	80 - 120
				Total Tin (Sn)	2021/04/07		100	%	80 - 120
				Total Titanium (Ti)	2021/04/07		97	%	80 - 120
				Total Uranium (U)	2021/04/07		102	%	80 - 120
				Total Vanadium (V)	2021/04/07		99	%	80 - 120
				Total Zinc (Zn)	2021/04/07		97	%	80 - 120
				Total Aluminum (Al)	2021/04/07	<0.0050		mg/L	
				Total Antimony (Sb)	2021/04/07	<0.0010		mg/L	
				Total Arsenic (As)	2021/04/07	<0.0010		mg/L	
				Total Barium (Ba)	2021/04/07	<0.0010		mg/L	
				Total Beryllium (Be)	2021/04/07	<0.0010		mg/L	
				Total Bismuth (Bi)	2021/04/07	<0.0020		mg/L	
				Total Boron (B)	2021/04/07	<0.050		mg/L	
				Total Cadmium (Cd)	2021/04/07	<0.000010		mg/L	
				Total Calcium (Ca)	2021/04/07	<0.10		mg/L	
				Total Chromium (Cr)	2021/04/07	<0.0010		mg/L	
				Total Cobalt (Co)	2021/04/07	<0.00040		mg/L	
				Total Copper (Cu)	2021/04/07	<0.00050		mg/L	
				Total Iron (Fe)	2021/04/07	<0.050		mg/L	
				Total Lead (Pb)	2021/04/07	<0.00050		mg/L	
				Total Magnesium (Mg)	2021/04/07	<0.10		mg/L	
				Total Manganese (Mn)	2021/04/07	<0.0020		mg/L	
				Total Molybdenum (Mo)	2021/04/07	<0.0020		mg/L	
				Total Nickel (Ni)	2021/04/07	<0.0020		mg/L	
				Total Phosphorus (P)	2021/04/07	<0.10		mg/L	
				Total Potassium (K)	2021/04/07	<0.10		mg/L	
				Total Selenium (Se)	2021/04/07	<0.00050		mg/L	
				Total Silver (Ag)	2021/04/07	<0.00010		mg/L	
				Total Sodium (Na)	2021/04/07	<0.10		mg/L	
				Total Strontium (Sr)	2021/04/07	<0.0020		mg/L	
				Total Thallium (Tl)	2021/04/07	<0.00010		mg/L	
				Total Tin (Sn)	2021/04/07	<0.0020		mg/L	
				Total Titanium (Ti)	2021/04/07	<0.0020		mg/L	
				Total Uranium (U)	2021/04/07	<0.00010		mg/L	
				Total Vanadium (V)	2021/04/07	<0.0020		mg/L	
				Total Zinc (Zn)	2021/04/07	<0.0050		mg/L	
7285229	BAN	RPD		Total Aluminum (Al)	2021/04/07	1.4		%	20
				Total Antimony (Sb)	2021/04/07	NC		%	20
				Total Arsenic (As)	2021/04/07	NC		%	20
				Total Barium (Ba)	2021/04/07	5.5		%	20
				Total Beryllium (Be)	2021/04/07	NC		%	20
				Total Bismuth (Bi)	2021/04/07	NC		%	20
				Total Boron (B)	2021/04/07	NC		%	20
				Total Cadmium (Cd)	2021/04/07	5.2		%	20
				Total Calcium (Ca)	2021/04/07	2.4		%	20
				Total Chromium (Cr)	2021/04/07	NC		%	20
				Total Cobalt (Co)	2021/04/07	NC		%	20
				Total Copper (Cu)	2021/04/07	3.4		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Iron (Fe)	2021/04/07	NC		%	20
			Total Lead (Pb)	2021/04/07	NC		%	20
			Total Magnesium (Mg)	2021/04/07	2.6		%	20
			Total Manganese (Mn)	2021/04/07	NC		%	20
			Total Molybdenum (Mo)	2021/04/07	NC		%	20
			Total Nickel (Ni)	2021/04/07	2.8		%	20
			Total Phosphorus (P)	2021/04/07	1.3		%	20
			Total Potassium (K)	2021/04/07	0.66		%	20
			Total Selenium (Se)	2021/04/07	NC		%	20
			Total Silver (Ag)	2021/04/07	NC		%	20
			Total Sodium (Na)	2021/04/07	0.87		%	20
			Total Strontium (Sr)	2021/04/07	7.5		%	20
			Total Thallium (Tl)	2021/04/07	NC		%	20
			Total Tin (Sn)	2021/04/07	NC		%	20
			Total Titanium (Ti)	2021/04/07	NC		%	20
			Total Uranium (U)	2021/04/07	NC		%	20
			Total Vanadium (V)	2021/04/07	NC		%	20
			Total Zinc (Zn)	2021/04/07	0.99		%	20
7285365	BAN	Matrix Spike [PFV283-04]	Dissolved Aluminum (Al)	2021/04/07		96	%	80 - 120
			Dissolved Antimony (Sb)	2021/04/07		100	%	80 - 120
			Dissolved Arsenic (As)	2021/04/07		95	%	80 - 120
			Dissolved Barium (Ba)	2021/04/07		99	%	80 - 120
			Dissolved Beryllium (Be)	2021/04/07		98	%	80 - 120
			Dissolved Bismuth (Bi)	2021/04/07		90	%	80 - 120
			Dissolved Boron (B)	2021/04/07		95	%	80 - 120
			Dissolved Cadmium (Cd)	2021/04/07		96	%	80 - 120
			Dissolved Calcium (Ca)	2021/04/07		99	%	80 - 120
			Dissolved Chromium (Cr)	2021/04/07		97	%	80 - 120
			Dissolved Cobalt (Co)	2021/04/07		96	%	80 - 120
			Dissolved Copper (Cu)	2021/04/07		92	%	80 - 120
			Dissolved Iron (Fe)	2021/04/07		97	%	80 - 120
			Dissolved Lead (Pb)	2021/04/07		108	%	80 - 120
			Dissolved Magnesium (Mg)	2021/04/07		98	%	80 - 120
			Dissolved Manganese (Mn)	2021/04/07		96	%	80 - 120
			Dissolved Molybdenum (Mo)	2021/04/07		94	%	80 - 120
			Dissolved Nickel (Ni)	2021/04/07		98	%	80 - 120
			Dissolved Phosphorus (P)	2021/04/07		100	%	80 - 120
			Dissolved Potassium (K)	2021/04/07		96	%	80 - 120
			Dissolved Selenium (Se)	2021/04/07		100	%	80 - 120
			Dissolved Silver (Ag)	2021/04/07		93	%	80 - 120
			Dissolved Sodium (Na)	2021/04/07		99	%	80 - 120
			Dissolved Strontium (Sr)	2021/04/07		97	%	80 - 120
			Dissolved Thallium (Tl)	2021/04/07		97	%	80 - 120
			Dissolved Tin (Sn)	2021/04/07		99	%	80 - 120
			Dissolved Titanium (Ti)	2021/04/07		99	%	80 - 120
			Dissolved Uranium (U)	2021/04/07		104	%	80 - 120
			Dissolved Vanadium (V)	2021/04/07		100	%	80 - 120
			Dissolved Zinc (Zn)	2021/04/07		97	%	80 - 120
7285365	BAN	Spiked Blank	Dissolved Aluminum (Al)	2021/04/07		95	%	80 - 120
			Dissolved Antimony (Sb)	2021/04/07		102	%	80 - 120
			Dissolved Arsenic (As)	2021/04/07		96	%	80 - 120
			Dissolved Barium (Ba)	2021/04/07		100	%	80 - 120
			Dissolved Beryllium (Be)	2021/04/07		102	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7285365	BAN	Method Blank	Dissolved Bismuth (Bi)	2021/04/07		97	%	80 - 120
			Dissolved Boron (B)	2021/04/07		96	%	80 - 120
			Dissolved Cadmium (Cd)	2021/04/07		96	%	80 - 120
			Dissolved Calcium (Ca)	2021/04/07		98	%	80 - 120
			Dissolved Chromium (Cr)	2021/04/07		97	%	80 - 120
			Dissolved Cobalt (Co)	2021/04/07		95	%	80 - 120
			Dissolved Copper (Cu)	2021/04/07		93	%	80 - 120
			Dissolved Iron (Fe)	2021/04/07		97	%	80 - 120
			Dissolved Lead (Pb)	2021/04/07		99	%	80 - 120
			Dissolved Magnesium (Mg)	2021/04/07		95	%	80 - 120
			Dissolved Manganese (Mn)	2021/04/07		100	%	80 - 120
			Dissolved Molybdenum (Mo)	2021/04/07		101	%	80 - 120
			Dissolved Nickel (Ni)	2021/04/07		98	%	80 - 120
			Dissolved Phosphorus (P)	2021/04/07		101	%	80 - 120
			Dissolved Potassium (K)	2021/04/07		96	%	80 - 120
			Dissolved Selenium (Se)	2021/04/07		97	%	80 - 120
			Dissolved Silver (Ag)	2021/04/07		95	%	80 - 120
			Dissolved Sodium (Na)	2021/04/07		97	%	80 - 120
			Dissolved Strontium (Sr)	2021/04/07		99	%	80 - 120
			Dissolved Thallium (Tl)	2021/04/07		98	%	80 - 120
			Dissolved Tin (Sn)	2021/04/07		98	%	80 - 120
			Dissolved Titanium (Ti)	2021/04/07		99	%	80 - 120
			Dissolved Uranium (U)	2021/04/07		106	%	80 - 120
			Dissolved Vanadium (V)	2021/04/07		100	%	80 - 120
			Dissolved Zinc (Zn)	2021/04/07		98	%	80 - 120
			Dissolved Aluminum (Al)	2021/04/07	<5.0		ug/L	
			Dissolved Antimony (Sb)	2021/04/07	<1.0		ug/L	
			Dissolved Arsenic (As)	2021/04/07	<1.0		ug/L	
			Dissolved Barium (Ba)	2021/04/07	<1.0		ug/L	
			Dissolved Beryllium (Be)	2021/04/07	<1.0		ug/L	
			Dissolved Bismuth (Bi)	2021/04/07	<2.0		ug/L	
			Dissolved Boron (B)	2021/04/07	<50		ug/L	
			Dissolved Cadmium (Cd)	2021/04/07	<0.010		ug/L	
			Dissolved Calcium (Ca)	2021/04/07	<100		ug/L	
			Dissolved Chromium (Cr)	2021/04/07	<1.0		ug/L	
			Dissolved Cobalt (Co)	2021/04/07	<0.40		ug/L	
			Dissolved Copper (Cu)	2021/04/07	<0.50		ug/L	
			Dissolved Iron (Fe)	2021/04/07	<50		ug/L	
			Dissolved Lead (Pb)	2021/04/07	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2021/04/07	<100		ug/L	
			Dissolved Manganese (Mn)	2021/04/07	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2021/04/07	<2.0		ug/L	
			Dissolved Nickel (Ni)	2021/04/07	<2.0		ug/L	
			Dissolved Phosphorus (P)	2021/04/07	<100		ug/L	
			Dissolved Potassium (K)	2021/04/07	<100		ug/L	
			Dissolved Selenium (Se)	2021/04/07	<0.50		ug/L	
			Dissolved Silver (Ag)	2021/04/07	<0.10		ug/L	
			Dissolved Sodium (Na)	2021/04/07	<100		ug/L	
			Dissolved Strontium (Sr)	2021/04/07	<2.0		ug/L	
			Dissolved Thallium (Tl)	2021/04/07	<0.10		ug/L	
			Dissolved Tin (Sn)	2021/04/07	<2.0		ug/L	
			Dissolved Titanium (Ti)	2021/04/07	<2.0		ug/L	
			Dissolved Uranium (U)	2021/04/07	<0.10		ug/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7285365	BAN	RPD [PFV283-04]	Dissolved Vanadium (V)	2021/04/07	<2.0		ug/L	
			Dissolved Zinc (Zn)	2021/04/07	<5.0		ug/L	
			Dissolved Aluminum (Al)	2021/04/07	1.5		%	20
			Dissolved Antimony (Sb)	2021/04/07	NC		%	20
			Dissolved Arsenic (As)	2021/04/07	NC		%	20
			Dissolved Barium (Ba)	2021/04/07	4.4		%	20
			Dissolved Beryllium (Be)	2021/04/07	NC		%	20
			Dissolved Bismuth (Bi)	2021/04/07	NC		%	20
			Dissolved Boron (B)	2021/04/07	NC		%	20
			Dissolved Cadmium (Cd)	2021/04/07	NC		%	20
			Dissolved Calcium (Ca)	2021/04/07	5.2		%	20
			Dissolved Chromium (Cr)	2021/04/07	NC		%	20
			Dissolved Cobalt (Co)	2021/04/07	NC		%	20
			Dissolved Copper (Cu)	2021/04/07	NC		%	20
			Dissolved Iron (Fe)	2021/04/07	0.84		%	20
			Dissolved Lead (Pb)	2021/04/07	NC		%	20
			Dissolved Magnesium (Mg)	2021/04/07	0.87		%	20
			Dissolved Manganese (Mn)	2021/04/07	6.5		%	20
			Dissolved Molybdenum (Mo)	2021/04/07	NC		%	20
			Dissolved Nickel (Ni)	2021/04/07	NC		%	20
			Dissolved Phosphorus (P)	2021/04/07	NC		%	20
			Dissolved Potassium (K)	2021/04/07	0.44		%	20
			Dissolved Selenium (Se)	2021/04/07	NC		%	20
			Dissolved Silver (Ag)	2021/04/07	NC		%	20
			Dissolved Sodium (Na)	2021/04/07	0.76		%	20
			Dissolved Strontium (Sr)	2021/04/07	5.0		%	20
			Dissolved Thallium (Tl)	2021/04/07	NC		%	20
			Dissolved Tin (Sn)	2021/04/07	NC		%	20
			Dissolved Titanium (Ti)	2021/04/07	NC		%	20
			Dissolved Uranium (U)	2021/04/07	NC		%	20
			Dissolved Vanadium (V)	2021/04/07	NC		%	20
			Dissolved Zinc (Zn)	2021/04/07	NC		%	20
7285397	BAN	Matrix Spike	Total Aluminum (Al)	2021/04/08		96	%	80 - 120
			Total Antimony (Sb)	2021/04/08		103	%	80 - 120
			Total Arsenic (As)	2021/04/08		92	%	80 - 120
			Total Barium (Ba)	2021/04/08		97	%	80 - 120
			Total Beryllium (Be)	2021/04/08		95	%	80 - 120
			Total Bismuth (Bi)	2021/04/08		97	%	80 - 120
			Total Boron (B)	2021/04/08		95	%	80 - 120
			Total Cadmium (Cd)	2021/04/08		95	%	80 - 120
			Total Calcium (Ca)	2021/04/08		97	%	80 - 120
			Total Chromium (Cr)	2021/04/08		94	%	80 - 120
			Total Cobalt (Co)	2021/04/08		94	%	80 - 120
			Total Copper (Cu)	2021/04/08		91	%	80 - 120
			Total Iron (Fe)	2021/04/08		97	%	80 - 120
			Total Lead (Pb)	2021/04/08		95	%	80 - 120
			Total Magnesium (Mg)	2021/04/08		98	%	80 - 120
			Total Manganese (Mn)	2021/04/08		94	%	80 - 120
			Total Molybdenum (Mo)	2021/04/08		103	%	80 - 120
			Total Nickel (Ni)	2021/04/08		95	%	80 - 120
			Total Phosphorus (P)	2021/04/08		100	%	80 - 120
			Total Potassium (K)	2021/04/08		97	%	80 - 120
			Total Selenium (Se)	2021/04/08		96	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7285397	BAN	Spiked Blank		Total Silver (Ag)	2021/04/08		96	%	80 - 120
				Total Sodium (Na)	2021/04/08		NC	%	80 - 120
				Total Strontium (Sr)	2021/04/08		96	%	80 - 120
				Total Thallium (Tl)	2021/04/08		97	%	80 - 120
				Total Tin (Sn)	2021/04/08		102	%	80 - 120
				Total Titanium (Ti)	2021/04/08		98	%	80 - 120
				Total Uranium (U)	2021/04/08		101	%	80 - 120
				Total Vanadium (V)	2021/04/08		98	%	80 - 120
				Total Zinc (Zn)	2021/04/08		95	%	80 - 120
				Total Aluminum (Al)	2021/04/08		95	%	80 - 120
				Total Antimony (Sb)	2021/04/08		101	%	80 - 120
				Total Arsenic (As)	2021/04/08		93	%	80 - 120
				Total Barium (Ba)	2021/04/08		95	%	80 - 120
				Total Beryllium (Be)	2021/04/08		95	%	80 - 120
				Total Bismuth (Bi)	2021/04/08		97	%	80 - 120
				Total Boron (B)	2021/04/08		94	%	80 - 120
				Total Cadmium (Cd)	2021/04/08		95	%	80 - 120
				Total Calcium (Ca)	2021/04/08		97	%	80 - 120
				Total Chromium (Cr)	2021/04/08		94	%	80 - 120
				Total Cobalt (Co)	2021/04/08		94	%	80 - 120
				Total Copper (Cu)	2021/04/08		92	%	80 - 120
				Total Iron (Fe)	2021/04/08		98	%	80 - 120
				Total Lead (Pb)	2021/04/08		95	%	80 - 120
				Total Magnesium (Mg)	2021/04/08		98	%	80 - 120
				Total Manganese (Mn)	2021/04/08		95	%	80 - 120
				Total Molybdenum (Mo)	2021/04/08		102	%	80 - 120
				Total Nickel (Ni)	2021/04/08		96	%	80 - 120
				Total Phosphorus (P)	2021/04/08		100	%	80 - 120
				Total Potassium (K)	2021/04/08		96	%	80 - 120
				Total Selenium (Se)	2021/04/08		94	%	80 - 120
				Total Silver (Ag)	2021/04/08		94	%	80 - 120
				Total Sodium (Na)	2021/04/08		98	%	80 - 120
				Total Strontium (Sr)	2021/04/08		95	%	80 - 120
				Total Thallium (Tl)	2021/04/08		97	%	80 - 120
				Total Tin (Sn)	2021/04/08		100	%	80 - 120
				Total Titanium (Ti)	2021/04/08		95	%	80 - 120
				Total Uranium (U)	2021/04/08		100	%	80 - 120
				Total Vanadium (V)	2021/04/08		98	%	80 - 120
				Total Zinc (Zn)	2021/04/08		96	%	80 - 120
7285397	BAN	Method Blank		Total Aluminum (Al)	2021/04/08	<0.0050		mg/L	
				Total Antimony (Sb)	2021/04/08	<0.0010		mg/L	
				Total Arsenic (As)	2021/04/08	<0.0010		mg/L	
				Total Barium (Ba)	2021/04/08	<0.0010		mg/L	
				Total Beryllium (Be)	2021/04/08	<0.0010		mg/L	
				Total Bismuth (Bi)	2021/04/08	<0.0020		mg/L	
				Total Boron (B)	2021/04/08	<0.050		mg/L	
				Total Cadmium (Cd)	2021/04/08	<0.000010		mg/L	
				Total Calcium (Ca)	2021/04/08	<0.10		mg/L	
				Total Chromium (Cr)	2021/04/08	<0.0010		mg/L	
				Total Cobalt (Co)	2021/04/08	<0.00040		mg/L	
				Total Copper (Cu)	2021/04/08	<0.00050		mg/L	
				Total Iron (Fe)	2021/04/08	<0.050		mg/L	
				Total Lead (Pb)	2021/04/08	<0.00050		mg/L	



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QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Total Magnesium (Mg)	2021/04/08	<0.10		mg/L	
				Total Manganese (Mn)	2021/04/08	<0.0020		mg/L	
				Total Molybdenum (Mo)	2021/04/08	<0.0020		mg/L	
				Total Nickel (Ni)	2021/04/08	<0.0020		mg/L	
				Total Phosphorus (P)	2021/04/08	<0.10		mg/L	
				Total Potassium (K)	2021/04/08	<0.10		mg/L	
				Total Selenium (Se)	2021/04/08	<0.00050		mg/L	
				Total Silver (Ag)	2021/04/08	<0.00010		mg/L	
				Total Sodium (Na)	2021/04/08	<0.10		mg/L	
				Total Strontium (Sr)	2021/04/08	<0.0020		mg/L	
				Total Thallium (Tl)	2021/04/08	<0.00010		mg/L	
				Total Tin (Sn)	2021/04/08	<0.0020		mg/L	
				Total Titanium (Ti)	2021/04/08	<0.0020		mg/L	
				Total Uranium (U)	2021/04/08	<0.00010		mg/L	
				Total Vanadium (V)	2021/04/08	<0.0020		mg/L	
				Total Zinc (Zn)	2021/04/08	<0.0050		mg/L	
7285397	BAN	RPD		Total Manganese (Mn)	2021/04/08	3.0		%	20
7285432	SHW	QC Standard		Turbidity	2021/04/07		105	%	80 - 120
7285432	SHW	Spiked Blank		Turbidity	2021/04/07		103	%	80 - 120
7285432	SHW	Method Blank		Turbidity	2021/04/07	<0.10		NTU	
7285432	SHW	RPD		Turbidity	2021/04/07	NC		%	20
7285452	YLG	Matrix Spike		Dissolved Organic Carbon (C)	2021/04/07		94	%	85 - 115
7285452	YLG	Spiked Blank		Dissolved Organic Carbon (C)	2021/04/07		96	%	80 - 120
7285452	YLG	Method Blank		Dissolved Organic Carbon (C)	2021/04/07	<0.50		mg/L	
7285452	YLG	RPD		Dissolved Organic Carbon (C)	2021/04/07	NC		%	15
7285595	NHU	Matrix Spike		Dissolved Mercury (Hg)	2021/04/08		103	%	80 - 120
7285595	NHU	Spiked Blank		Dissolved Mercury (Hg)	2021/04/08		102	%	80 - 120
7285595	NHU	Method Blank		Dissolved Mercury (Hg)	2021/04/08	<0.013		ug/L	
7285595	NHU	RPD		Dissolved Mercury (Hg)	2021/04/08	12		%	20
7287564	SHW	Spiked Blank		Conductivity	2021/04/08		99	%	80 - 120
7287564	SHW	Method Blank		Conductivity	2021/04/08	<1.0		uS/cm	
7287564	SHW	RPD		Conductivity	2021/04/08	0.33		%	10
7287567	SHW	Spiked Blank		pH	2021/04/08		100	%	97 - 103
7287567	SHW	RPD		pH	2021/04/08	0.55		%	N/A
7287587	BAN	Matrix Spike		Dissolved Aluminum (Al)	2021/04/08		100	%	80 - 120
				Dissolved Antimony (Sb)	2021/04/08		100	%	80 - 120
				Dissolved Arsenic (As)	2021/04/08		95	%	80 - 120
				Dissolved Barium (Ba)	2021/04/08		93	%	80 - 120
				Dissolved Beryllium (Be)	2021/04/08		100	%	80 - 120
				Dissolved Bismuth (Bi)	2021/04/08		96	%	80 - 120
				Dissolved Boron (B)	2021/04/08		NC	%	80 - 120
				Dissolved Cadmium (Cd)	2021/04/08		99	%	80 - 120
				Dissolved Calcium (Ca)	2021/04/08		93	%	80 - 120
				Dissolved Chromium (Cr)	2021/04/08		95	%	80 - 120
				Dissolved Cobalt (Co)	2021/04/08		97	%	80 - 120
				Dissolved Copper (Cu)	2021/04/08		95	%	80 - 120
				Dissolved Iron (Fe)	2021/04/08		99	%	80 - 120
				Dissolved Lead (Pb)	2021/04/08		99	%	80 - 120
				Dissolved Magnesium (Mg)	2021/04/08		101	%	80 - 120
				Dissolved Manganese (Mn)	2021/04/08		NC	%	80 - 120
				Dissolved Molybdenum (Mo)	2021/04/08		NC	%	80 - 120
				Dissolved Nickel (Ni)	2021/04/08		99	%	80 - 120
				Dissolved Phosphorus (P)	2021/04/08		101	%	80 - 120

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7287587	BAN	Spiked Blank	Dissolved Potassium (K)	2021/04/08		102	%	80 - 120
			Dissolved Selenium (Se)	2021/04/08		98	%	80 - 120
			Dissolved Silver (Ag)	2021/04/08		96	%	80 - 120
			Dissolved Sodium (Na)	2021/04/08		99	%	80 - 120
			Dissolved Strontium (Sr)	2021/04/08		NC	%	80 - 120
			Dissolved Thallium (Tl)	2021/04/08		98	%	80 - 120
			Dissolved Tin (Sn)	2021/04/08		99	%	80 - 120
			Dissolved Titanium (Ti)	2021/04/08		98	%	80 - 120
			Dissolved Uranium (U)	2021/04/08		104	%	80 - 120
			Dissolved Vanadium (V)	2021/04/08		96	%	80 - 120
			Dissolved Zinc (Zn)	2021/04/08		97	%	80 - 120
			Dissolved Aluminum (Al)	2021/04/08		103	%	80 - 120
			Dissolved Antimony (Sb)	2021/04/08		96	%	80 - 120
			Dissolved Arsenic (As)	2021/04/08		94	%	80 - 120
			Dissolved Barium (Ba)	2021/04/08		92	%	80 - 120
			Dissolved Beryllium (Be)	2021/04/08		98	%	80 - 120
			Dissolved Bismuth (Bi)	2021/04/08		95	%	80 - 120
			Dissolved Boron (B)	2021/04/08		92	%	80 - 120
			Dissolved Cadmium (Cd)	2021/04/08		96	%	80 - 120
			Dissolved Calcium (Ca)	2021/04/08		98	%	80 - 120
			Dissolved Chromium (Cr)	2021/04/08		93	%	80 - 120
			Dissolved Cobalt (Co)	2021/04/08		95	%	80 - 120
			Dissolved Copper (Cu)	2021/04/08		94	%	80 - 120
			Dissolved Iron (Fe)	2021/04/08		99	%	80 - 120
			Dissolved Lead (Pb)	2021/04/08		97	%	80 - 120
			Dissolved Magnesium (Mg)	2021/04/08		104	%	80 - 120
			Dissolved Manganese (Mn)	2021/04/08		98	%	80 - 120
			Dissolved Molybdenum (Mo)	2021/04/08		98	%	80 - 120
			Dissolved Nickel (Ni)	2021/04/08		97	%	80 - 120
			Dissolved Phosphorus (P)	2021/04/08		101	%	80 - 120
			Dissolved Potassium (K)	2021/04/08		101	%	80 - 120
			Dissolved Selenium (Se)	2021/04/08		99	%	80 - 120
			Dissolved Silver (Ag)	2021/04/08		94	%	80 - 120
			Dissolved Sodium (Na)	2021/04/08		102	%	80 - 120
			Dissolved Strontium (Sr)	2021/04/08		98	%	80 - 120
			Dissolved Thallium (Tl)	2021/04/08		96	%	80 - 120
			Dissolved Tin (Sn)	2021/04/08		94	%	80 - 120
			Dissolved Titanium (Ti)	2021/04/08		101	%	80 - 120
			Dissolved Uranium (U)	2021/04/08		101	%	80 - 120
			Dissolved Vanadium (V)	2021/04/08		93	%	80 - 120
			Dissolved Zinc (Zn)	2021/04/08		96	%	80 - 120
7287587	BAN	Method Blank	Dissolved Aluminum (Al)	2021/04/08	<5.0		ug/L	
			Dissolved Antimony (Sb)	2021/04/08	<1.0		ug/L	
			Dissolved Arsenic (As)	2021/04/08	<1.0		ug/L	
			Dissolved Barium (Ba)	2021/04/08	<1.0		ug/L	
			Dissolved Beryllium (Be)	2021/04/08	<1.0		ug/L	
			Dissolved Bismuth (Bi)	2021/04/08	<2.0		ug/L	
			Dissolved Boron (B)	2021/04/08	<50		ug/L	
			Dissolved Cadmium (Cd)	2021/04/08	<0.010		ug/L	
			Dissolved Calcium (Ca)	2021/04/08	<100		ug/L	
			Dissolved Chromium (Cr)	2021/04/08	<1.0		ug/L	
			Dissolved Cobalt (Co)	2021/04/08	<0.40		ug/L	
			Dissolved Copper (Cu)	2021/04/08	<0.50		ug/L	

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7287587	BAN	RPD	Dissolved Iron (Fe)	2021/04/08	<50		ug/L	
			Dissolved Lead (Pb)	2021/04/08	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2021/04/08	<100		ug/L	
			Dissolved Manganese (Mn)	2021/04/08	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2021/04/08	<2.0		ug/L	
			Dissolved Nickel (Ni)	2021/04/08	<2.0		ug/L	
			Dissolved Phosphorus (P)	2021/04/08	<100		ug/L	
			Dissolved Potassium (K)	2021/04/08	<100		ug/L	
			Dissolved Selenium (Se)	2021/04/08	<0.50		ug/L	
			Dissolved Silver (Ag)	2021/04/08	<0.10		ug/L	
			Dissolved Sodium (Na)	2021/04/08	<100		ug/L	
			Dissolved Strontium (Sr)	2021/04/08	<2.0		ug/L	
			Dissolved Thallium (Tl)	2021/04/08	<0.10		ug/L	
			Dissolved Tin (Sn)	2021/04/08	<2.0		ug/L	
			Dissolved Titanium (Ti)	2021/04/08	<2.0		ug/L	
			Dissolved Uranium (U)	2021/04/08	<0.10		ug/L	
			Dissolved Vanadium (V)	2021/04/08	<2.0		ug/L	
			Dissolved Zinc (Zn)	2021/04/08	<5.0		ug/L	
			Dissolved Aluminum (Al)	2021/04/08	7.2		%	20
			Dissolved Antimony (Sb)	2021/04/08	NC		%	20
			Dissolved Arsenic (As)	2021/04/08	NC		%	20
			Dissolved Barium (Ba)	2021/04/08	1.9		%	20
			Dissolved Beryllium (Be)	2021/04/08	NC		%	20
			Dissolved Bismuth (Bi)	2021/04/08	NC		%	20
			Dissolved Boron (B)	2021/04/08	1.2		%	20
			Dissolved Cadmium (Cd)	2021/04/08	10		%	20
			Dissolved Calcium (Ca)	2021/04/08	0.77		%	20
			Dissolved Chromium (Cr)	2021/04/08	NC		%	20
			Dissolved Cobalt (Co)	2021/04/08	NC		%	20
			Dissolved Copper (Cu)	2021/04/08	4.3		%	20
			Dissolved Iron (Fe)	2021/04/08	NC		%	20
			Dissolved Lead (Pb)	2021/04/08	NC		%	20
			Dissolved Magnesium (Mg)	2021/04/08	0.42		%	20
			Dissolved Manganese (Mn)	2021/04/08	0.21		%	20
			Dissolved Molybdenum (Mo)	2021/04/08	0.37		%	20
			Dissolved Nickel (Ni)	2021/04/08	3.2		%	20
			Dissolved Phosphorus (P)	2021/04/08	NC		%	20
			Dissolved Potassium (K)	2021/04/08	2.1		%	20
			Dissolved Selenium (Se)	2021/04/08	2.7		%	20
			Dissolved Silver (Ag)	2021/04/08	NC		%	20
			Dissolved Sodium (Na)	2021/04/08	0.94		%	20
			Dissolved Strontium (Sr)	2021/04/08	0.67		%	20
			Dissolved Thallium (Tl)	2021/04/08	NC		%	20
			Dissolved Tin (Sn)	2021/04/08	NC		%	20
			Dissolved Titanium (Ti)	2021/04/08	NC		%	20
			Dissolved Uranium (U)	2021/04/08	NC		%	20
			Dissolved Vanadium (V)	2021/04/08	NC		%	20
			Dissolved Zinc (Zn)	2021/04/08	2.1		%	20
7287602	NHU	Matrix Spike [PFV279-06]	Total Mercury (Hg)	2021/04/09		100	%	80 - 120
7287602	NHU	Spiked Blank	Total Mercury (Hg)	2021/04/09		101	%	80 - 120
7287602	NHU	Method Blank	Total Mercury (Hg)	2021/04/09	<0.013		ug/L	
7287602	NHU	RPD [PFV278-06]	Total Mercury (Hg)	2021/04/09	NC		%	20
7288156	YLG	Matrix Spike	Total Organic Carbon (C)	2021/04/08		95	%	85 - 115

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7288156	YLG		Spiked Blank	Total Organic Carbon (C)	2021/04/08		98	%	80 - 120
7288156	YLG		Method Blank	Total Organic Carbon (C)	2021/04/08	<0.50		mg/L	
7288156	YLG		RPD	Total Organic Carbon (C)	2021/04/08	2.4		%	15
7288176	YLG		Matrix Spike	Dissolved Organic Carbon (C)	2021/04/08		95	%	85 - 115
7288176	YLG		Spiked Blank	Dissolved Organic Carbon (C)	2021/04/08		98	%	80 - 120
7288176	YLG		Method Blank	Dissolved Organic Carbon (C)	2021/04/08	<0.50		mg/L	
7288176	YLG		RPD	Dissolved Organic Carbon (C)	2021/04/08	5.6		%	15
7290088	MCN		Matrix Spike	Total Alkalinity (Total as CaCO3)	2021/04/13		NC	%	80 - 120
7290088	MCN		Spiked Blank	Total Alkalinity (Total as CaCO3)	2021/04/12		102	%	80 - 120
7290088	MCN		Method Blank	Total Alkalinity (Total as CaCO3)	2021/04/12	<5.0		mg/L	
7290088	MCN		RPD	Total Alkalinity (Total as CaCO3)	2021/04/12	0.24		%	20
7290090	MCN		Matrix Spike	Dissolved Chloride (Cl-)	2021/04/12		102	%	80 - 120
7290090	MCN		Spiked Blank	Dissolved Chloride (Cl-)	2021/04/12		106	%	80 - 120
7290090	MCN		Method Blank	Dissolved Chloride (Cl-)	2021/04/12	<1.0		mg/L	
7290090	MCN		RPD	Dissolved Chloride (Cl-)	2021/04/12	1.9		%	20
7290092	MCN		Matrix Spike	Dissolved Sulphate (SO4)	2021/04/12		NC	%	80 - 120
7290092	MCN		Spiked Blank	Dissolved Sulphate (SO4)	2021/04/12		111	%	80 - 120
7290092	MCN		Method Blank	Dissolved Sulphate (SO4)	2021/04/12	<2.0		mg/L	
7290092	MCN		RPD	Dissolved Sulphate (SO4)	2021/04/12	1.0		%	20
7290096	MCN		Matrix Spike	Reactive Silica (SiO2)	2021/04/12		93	%	80 - 120
7290096	MCN		Spiked Blank	Reactive Silica (SiO2)	2021/04/12		100	%	80 - 120
7290096	MCN		Method Blank	Reactive Silica (SiO2)	2021/04/12	<0.50		mg/L	
7290096	MCN		RPD	Reactive Silica (SiO2)	2021/04/12	4.5		%	20
7290097	MCN		Spiked Blank	Colour	2021/04/12		109	%	80 - 120
7290097	MCN		Method Blank	Colour	2021/04/12	<5.0		TCU	
7290097	MCN		RPD	Colour	2021/04/12	NC		%	20
7290101	MCN		Matrix Spike	Orthophosphate (P)	2021/04/12		96	%	80 - 120
7290101	MCN		Spiked Blank	Orthophosphate (P)	2021/04/12		99	%	80 - 120
7290101	MCN		Method Blank	Orthophosphate (P)	2021/04/12	<0.010		mg/L	
7290101	MCN		RPD	Orthophosphate (P)	2021/04/12	NC		%	20
7290102	MCN		Matrix Spike	Nitrate + Nitrite (N)	2021/04/12		85	%	80 - 120
7290102	MCN		Spiked Blank	Nitrate + Nitrite (N)	2021/04/12		95	%	80 - 120
7290102	MCN		Method Blank	Nitrate + Nitrite (N)	2021/04/12	<0.050		mg/L	
7290102	MCN		RPD	Nitrate + Nitrite (N)	2021/04/12	NC		%	20
7290103	MCN		Matrix Spike	Nitrite (N)	2021/04/12		100	%	80 - 120
7290103	MCN		Spiked Blank	Nitrite (N)	2021/04/12		104	%	80 - 120
7290103	MCN		Method Blank	Nitrite (N)	2021/04/12	<0.010		mg/L	
7290103	MCN		RPD	Nitrite (N)	2021/04/12	NC		%	20
7290106	MCN		Matrix Spike	Total Alkalinity (Total as CaCO3)	2021/04/12		NC	%	80 - 120
7290106	MCN		Spiked Blank	Total Alkalinity (Total as CaCO3)	2021/04/12		104	%	80 - 120
7290106	MCN		Method Blank	Total Alkalinity (Total as CaCO3)	2021/04/12	<5.0		mg/L	
7290106	MCN		RPD	Total Alkalinity (Total as CaCO3)	2021/04/12	1.1		%	20
7290112	MCN		Matrix Spike	Dissolved Chloride (Cl-)	2021/04/12		104	%	80 - 120
7290112	MCN		Spiked Blank	Dissolved Chloride (Cl-)	2021/04/12		106	%	80 - 120
7290112	MCN		Method Blank	Dissolved Chloride (Cl-)	2021/04/12	<1.0		mg/L	
7290112	MCN		RPD	Dissolved Chloride (Cl-)	2021/04/12	0.89		%	20
7290116	MCN		Matrix Spike	Dissolved Sulphate (SO4)	2021/04/12		107	%	80 - 120
7290116	MCN		Spiked Blank	Dissolved Sulphate (SO4)	2021/04/12		109	%	80 - 120
7290116	MCN		Method Blank	Dissolved Sulphate (SO4)	2021/04/13	<2.0		mg/L	
7290116	MCN		RPD	Dissolved Sulphate (SO4)	2021/04/12	1.5		%	20
7290118	MCN		Matrix Spike	Reactive Silica (SiO2)	2021/04/12		96	%	80 - 120
7290118	MCN		Spiked Blank	Reactive Silica (SiO2)	2021/04/12		100	%	80 - 120
7290118	MCN		Method Blank	Reactive Silica (SiO2)	2021/04/12	<0.50		mg/L	



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7290118	MCN	RPD	Reactive Silica (SiO ₂)	2021/04/12	2.9		%	20
7290120	MCN	Spiked Blank	Colour	2021/04/12		108	%	80 - 120
7290120	MCN	Method Blank	Colour	2021/04/12	<5.0		TCU	
7290120	MCN	RPD	Colour	2021/04/12	4.4		%	20
7290123	MCN	Matrix Spike	Orthophosphate (P)	2021/04/12		98	%	80 - 120
7290123	MCN	Spiked Blank	Orthophosphate (P)	2021/04/12		101	%	80 - 120
7290123	MCN	Method Blank	Orthophosphate (P)	2021/04/12	<0.010		mg/L	
7290123	MCN	RPD	Orthophosphate (P)	2021/04/12	NC		%	20
7290129	MCN	Matrix Spike	Nitrate + Nitrite (N)	2021/04/12		NC	%	80 - 120
7290129	MCN	Spiked Blank	Nitrate + Nitrite (N)	2021/04/12		97	%	80 - 120
7290129	MCN	Method Blank	Nitrate + Nitrite (N)	2021/04/12	<0.050		mg/L	
7290129	MCN	RPD	Nitrate + Nitrite (N)	2021/04/12	0.53		%	20
7290138	MCN	Matrix Spike	Nitrite (N)	2021/04/12		96	%	80 - 120
7290138	MCN	Spiked Blank	Nitrite (N)	2021/04/12		105	%	80 - 120
7290138	MCN	Method Blank	Nitrite (N)	2021/04/12	<0.010		mg/L	
7290138	MCN	RPD	Nitrite (N)	2021/04/12	4.3		%	20
7293208	MCN	Matrix Spike [PFV278-08]	Nitrogen (Ammonia Nitrogen)	2021/04/12		95	%	80 - 120
7293208	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2021/04/12		97	%	80 - 120
7293208	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2021/04/12	<0.050		mg/L	
7293208	MCN	RPD [PFV278-08]	Nitrogen (Ammonia Nitrogen)	2021/04/12	NC		%	20
7293212	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2021/04/13		7.5 (1)	%	80 - 120
7293212	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2021/04/12		99	%	80 - 120
7293212	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2021/04/12	<0.050		mg/L	
7293212	MCN	RPD	Nitrogen (Ammonia Nitrogen)	2021/04/13	1.3 (2)		%	20
7295889	BAN	Matrix Spike	Dissolved Cadmium (Cd)	2021/04/14		98	%	80 - 120
7295889	BAN	Spiked Blank	Dissolved Cadmium (Cd)	2021/04/14		98	%	80 - 120
7295889	BAN	Method Blank	Dissolved Cadmium (Cd)	2021/04/14	<0.010		ug/L	
7295889	BAN	RPD	Dissolved Cadmium (Cd)	2021/04/14	19		%	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Poor spike recovery due to sample matrix, recovery confirmed by repeat analysis.

(2) Poor spike recovery due to probable sample matrix interference.



BV Labs Job #: C188219
Report Date: 2021/04/14

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0202
Sampler Initials: DB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Eric Dearman, Scientific Specialist

Mike MacGillivray, Scientific Specialist (Inorganics)

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
For Service Group specific validation please refer to the Validation Signature Page.

BV Labs - Partial/Rush Results

Determination of chlorophyll a by fluorescence

Client: Bureau Veritas Laboratories, 200 Bluewater Road, Bedford, NS, B4B 1G9

Attention: Melissa DiPinto

Received: 2021-04-06

Project #: C188219

Completed: 2021-04-12



Hugh MacIntyre, Ph.D.

Chl *a* (chlorophyll *a* ; $\mu\text{g L}^{-1}$) determined by the acidification method (Holm-Hansen et al., 1965). Estimates made with the non-acidification method (Welschmeyer, 1994) are shown for comparison.

The non-acidification method is considered more reliable than the acidification method in correcting for bias due to the contributions of chlorophyll *b* and chlorophyll degradation products.

Holm-Hansen O, Lorenzen CJ, Holmes RW, Strickland JDH (1965) Fluorometric determination of chlorophyll.

J Conseil 30:3-15

Welschmeyer NA (1994) Fluorometric analysis of chlorophyll *a* in the presence of chlorophyll *b* and phaeopigments.

Limnol Oceanogr 39:1985-1992

Contractor ID	Client ID	Chl <i>a</i> (acidification)	Chl <i>a</i> (non-acidification)
PFV278-01R	SW-11-21	0.631	0.842
PFV279-01R	SW-12-21	0.783	0.969
PFV280-01R	SW-13-21	0.157	0.256
PFV281-01R	SW-14-21	0.486	0.665
PFV282-01R	SW-15-21	0.791	0.977
PFV283-01R	SW-16-21	0.804	0.998
PFV284-01R	SW-17-21	1.14	1.62
PFV285-01R	SW-18-21	0.15	0.146
PFV286-01R	SW-19-21	0.107	0.129

Contractor ID	Client ID	Chl a (acidification)	Chl a (non-acidification)
PFV287-01R	SW-20-21	2.25	2.9
PFV305-01R	SWDUPA-21	0.134	0.235



Your P.O. #: 0202
Your C.O.C. #: 819780-01-01, 819780-02-01

Attention: Derek Bullock

Anaconda Mining Inc
Goldboro Gold Mine
570 Goldbrook Road
Goldboro, NS
Canada BOH 1L0

Report Date: 2021/06/10
Report #: R6670447
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1D8409

Received: 2021/05/21, 14:50

Sample Matrix: Water
Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Carbonate, Bicarbonate and Hydroxide	3	N/A	2021/05/27	N/A	SM 23 4500-CO2 D
Carbonate, Bicarbonate and Hydroxide	8	N/A	2021/05/31	N/A	SM 23 4500-CO2 D
Alkalinity	11	N/A	2021/06/01	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	11	N/A	2021/05/31	ATL SOP 00014	SM 23 4500-Cl- E m
Colour	11	N/A	2021/05/31	ATL SOP 00020	SM 23 2120C m
Organic carbon - Diss (DOC) (3)	3	N/A	2021/05/27	ATL SOP 00203	SM 23 5310B m
Organic carbon - Diss (DOC) (3)	8	N/A	2021/05/28	ATL SOP 00203	SM 23 5310B m
Conductance - water	11	N/A	2021/05/31	ATL SOP 00004	SM 23 2510B m
Hardness (calculated as CaCO3)	1	N/A	2021/05/27	ATL SOP 00048	Auto Calc
Hardness (calculated as CaCO3)	10	N/A	2021/05/28	ATL SOP 00048	Auto Calc
Mercury - Dissolved (CVAA,LL)	5	2021/05/27	2021/05/27	ATL SOP 00026	EPA 245.1 R3 m
Mercury - Dissolved (CVAA,LL)	5	2021/05/31	2021/05/31	ATL SOP 00026	EPA 245.1 R3 m
Mercury - Total (CVAA,LL)	9	2021/05/28	2021/05/28	ATL SOP 00026	EPA 245.1 R3 m
Mercury - Total (CVAA,LL)	2	2021/05/31	2021/05/31	ATL SOP 00026	EPA 245.1 R3 m
Metals Water Diss. MS (4)	1	N/A	2021/05/27	ATL SOP 00058	EPA 6020B R2 m
Metals Water Diss. MS (as rec'd)	5	N/A	2021/05/27	ATL SOP 00058	EPA 6020B R2 m
Metals Water Diss. MS (as rec'd)	5	N/A	2021/05/28	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	10	2021/05/28	2021/05/28	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	1	2021/05/28	2021/06/01	ATL SOP 00058	EPA 6020B R2 m
Ion Balance (% Difference)	11	N/A	2021/06/01	N/A	Auto Calc.
Anion and Cation Sum	11	N/A	2021/06/01	N/A	Auto Calc.
Nitrogen Ammonia - water	11	N/A	2021/05/31	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	11	N/A	2021/05/31	ATL SOP 00016	USGS I-2547-11m
Nitrogen - Nitrite	11	N/A	2021/05/31	ATL SOP 00017	SM 23 4500-NO2- B m
Nitrogen - Nitrate (as N)	11	N/A	2021/05/31	ATL SOP 00018	ASTM D3867-16
pH (5)	3	N/A	2021/05/27	ATL SOP 00003	SM 23 4500-H+ B m
pH (5)	8	N/A	2021/05/31	ATL SOP 00003	SM 23 4500-H+ B m
Phosphorus - ortho	11	N/A	2021/05/31	ATL SOP 00021	SM 23 4500-P E m
Sat. pH and Langelier Index (@ 20C)	11	N/A	2021/06/01	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	11	N/A	2021/06/01	ATL SOP 00049	Auto Calc.
Reactive Silica	11	N/A	2021/05/31	ATL SOP 00022	EPA 366.0 m



Your P.O. #: 0202
Your C.O.C. #: 819780-01-01, 819780-02-01

Attention: Derek Bullock

Anaconda Mining Inc
Goldboro Gold Mine
570 Goldbrook Road
Goldboro, NS
Canada BOH 1L0

Report Date: 2021/06/10
Report #: R6670447
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1D8409

Received: 2021/05/21, 14:50

Sample Matrix: Water
Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Sulphate	11	N/A	2021/05/31	ATL SOP 00023	ASTM D516-16 m
Chlorophyll A (Sub from Bedford) (1)	11	2021/05/31	2021/05/27		
Methyl Mercury (sub from Bedford) (2)	11	N/A	2021/06/03		EPA 1630
Total Dissolved Solids (TDS calc)	11	N/A	2021/06/01	N/A	Auto Calc.
Organic carbon - Total (TOC) (3)	3	N/A	2021/05/27	ATL SOP 00203	SM 23 5310B m
Organic carbon - Total (TOC) (3)	3	N/A	2021/05/28	ATL SOP 00203	SM 23 5310B m
Organic carbon - Total (TOC) (3)	2	N/A	2021/05/29	ATL SOP 00203	SM 23 5310B m
Organic carbon - Total (TOC) (3)	3	N/A	2021/05/31	ATL SOP 00203	SM 23 5310B m
Turbidity	9	N/A	2021/05/27	ATL SOP 00011	EPA 180.1 R2 m
Turbidity	2	N/A	2021/05/28	ATL SOP 00011	EPA 180.1 R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Dalhousie Dept of Oceanography



Your P.O. #: 0202
Your C.O.C. #: 819780-01-01, 819780-02-01

Attention: Derek Bullock

Anaconda Mining Inc
Goldboro Gold Mine
570 Goldbrook Road
Goldboro, NS
Canada BOH 1L0

Report Date: 2021/06/10
Report #: R6670447
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1D8409

Received: 2021/05/21, 14:50

- (2) This test was performed by Sub Bedford to Flett Research
- (3) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.
- (4) Sample filtered in laboratory prior to analysis for dissolved metals.
- (5) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
10 Jun 2021 16:50:35

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Melissa DiPinto, Project Manager

Email: Melissa.DIPINTO@bureauveritas.com

Phone# (902)420-0203 Ext:233

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



RESULTS OF ANALYSES OF WATER

BV Labs ID		PQD266			PQD267			PQD268		
Sampling Date		2021/05/21 08:35			2021/05/21 11:10			2021/05/20 14:55		
COC Number		819780-01-01			819780-01-01			819780-01-01		
	UNITS	SW-11-21	RDL	QC Batch	SW-12-21	RDL	QC Batch	SW-13-21	RDL	QC Batch
Calculated Parameters										
Anion Sum	me/L	0.370	N/A	7365517	0.120	N/A	7365517	0.160	N/A	7365517
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	5.3	1.0	7365509	<1.0	1.0	7365509	<1.0	1.0	7365509
Calculated TDS	mg/L	24	1.0	7365527	11	1.0	7365527	16	1.0	7365527
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7365509	<1.0	1.0	7365509	<1.0	1.0	7365509
Cation Sum	me/L	0.380	N/A	7365517	0.210	N/A	7365517	0.260	N/A	7365517
Hardness (CaCO ₃)	mg/L	6.4	1.0	7365513	2.5	1.0	7365513	2.8	1.0	7365513
Ion Balance (% Difference)	%	1.33	N/A	7365546	27.3	N/A	7365546	23.8	N/A	7365546
Langelier Index (@ 20C)	N/A	-4.05		7365525	NC		7365525	NC		7365525
Langelier Index (@ 4C)	N/A	-4.30		7365526	NC		7365526	NC		7365526
Nitrate (N)	mg/L	0.054	0.050	7365520	<0.050	0.050	7365520	<0.050	0.050	7365520
Saturation pH (@ 20C)	N/A	10.4		7365525	NC		7365525	NC		7365525
Saturation pH (@ 4C)	N/A	10.6		7365526	NC		7365526	NC		7365526
Inorganics										
Total Alkalinity (Total as CaCO ₃)	mg/L	5.3	5.0	7376366	<5.0	5.0	7376366	<5.0	5.0	7376366
Dissolved Chloride (Cl ⁻)	mg/L	7.1	1.0	7376372	4.3	1.0	7376372	5.6	1.0	7376372
Colour	TCU	120	25	7376375	140	25	7376375	180	25	7376375
Nitrate + Nitrite (N)	mg/L	0.054	0.050	7376379	<0.050	0.050	7376379	<0.050	0.050	7376379
Nitrite (N)	mg/L	<0.010	0.010	7376380	<0.010	0.010	7376380	<0.010	0.010	7376380
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7379449	<0.050	0.050	7379449	<0.050	0.050	7379449
Dissolved Organic Carbon (C)	mg/L	9.1	0.50	7373765	10	0.50	7373765	13	0.50	7373757
Total Organic Carbon (C)	mg/L	11 (1)	5.0	7376245	10	0.50	7376245	15 (1)	5.0	7373989
Orthophosphate (P)	mg/L	0.022	0.010	7376378	<0.010	0.010	7376378	<0.010	0.010	7376378
pH	pH	6.33		7373362	5.59		7379414	5.03		7379414
Reactive Silica (SiO ₂)	mg/L	2.3	0.50	7376374	2.0	0.50	7376374	4.9	0.50	7376374
Dissolved Sulphate (SO ₄)	mg/L	2.8	2.0	7376373	<2.0	2.0	7376373	<2.0	2.0	7376373
Turbidity	NTU	4.5	0.10	7373427	1.7	0.10	7373427	3.3	0.10	7373427
Conductivity	uS/cm	39	1.0	7379415	26	1.0	7379413	32	1.0	7379413
Subcontracted Analysis										
Subcontract Parameter	N/A	ATTACHED	N/A	7401061	ATTACHED	N/A	7401061	ATTACHED	N/A	7401061
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Elevated reporting limit due to turbidity.										



RESULTS OF ANALYSES OF WATER

BV Labs ID		PQD269			PQD270			PQD271		
Sampling Date		2021/05/20 13:50			2021/05/20 16:35			2021/05/20 12:30		
COC Number		819780-01-01			819780-01-01			819780-01-01		
	UNITS	SW-14-21	RDL	QC Batch	SW-15-21	RDL	QC Batch	SW-16-21	RDL	QC Batch

Calculated Parameters										
Anion Sum	me/L	0.200	N/A	7365517	0.200	N/A	7365517	0.140	N/A	7365517
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7365509	<1.0	1.0	7365509	<1.0	1.0	7365509
Calculated TDS	mg/L	17	1.0	7365527	14	1.0	7365527	13	1.0	7365527
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7365509	<1.0	1.0	7365509	<1.0	1.0	7365509
Cation Sum	me/L	0.250	N/A	7365517	0.230	N/A	7365517	0.230	N/A	7365517
Hardness (CaCO ₃)	mg/L	2.9	1.0	7365513	2.9	1.0	7365513	2.3	1.0	7366194
Ion Balance (% Difference)	%	11.1	N/A	7365546	6.98	N/A	7365546	24.3	N/A	7365546
Langelier Index (@ 20C)	N/A	NC		7365525	NC		7365525	NC		7365525
Langelier Index (@ 4C)	N/A	NC		7365526	NC		7365526	NC		7365526
Nitrate (N)	mg/L	<0.050	0.050	7365520	<0.050	0.050	7365520	<0.050	0.050	7365520
Saturation pH (@ 20C)	N/A	NC		7365525	NC		7365525	NC		7365525
Saturation pH (@ 4C)	N/A	NC		7365526	NC		7365526	NC		7365526

Inorganics										
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7376366	<5.0	5.0	7376366	<5.0	5.0	7376366
Dissolved Chloride (Cl ⁻)	mg/L	5.6	1.0	7376372	5.1	1.0	7376372	4.9	1.0	7376372
Colour	TCU	110	25	7376375	39	5.0	7376375	130	25	7376375
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7376379	<0.050	0.050	7376379	<0.050	0.050	7376379
Nitrite (N)	mg/L	<0.010	0.010	7376380	<0.010	0.010	7376380	<0.010	0.010	7376380
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7379449	<0.050	0.050	7379449	<0.050	0.050	7379449
Dissolved Organic Carbon (C)	mg/L	7.3	0.50	7373757	4.8	0.50	7373765	10	0.50	7376015
Total Organic Carbon (C)	mg/L	7.7	0.50	7373753	4.9	0.50	7376239	11	0.50	7379616
Orthophosphate (P)	mg/L	0.016	0.010	7376378	<0.010	0.010	7376378	<0.010	0.010	7376378
pH	pH	5.87		7373362	5.78		7373362	4.92		7379414
Reactive Silica (SiO ₂)	mg/L	3.8	0.50	7376374	1.8	0.50	7376374	3.2	0.50	7376374
Dissolved Sulphate (SO ₄)	mg/L	2.2	2.0	7376373	2.7	2.0	7376373	<2.0	2.0	7376373
Turbidity	NTU	0.54	0.10	7373427	0.88	0.10	7373427	2.1	0.10	7373427
Conductivity	uS/cm	29	1.0	7379415	27	1.0	7379415	29	1.0	7379413

Subcontracted Analysis										
Subcontract Parameter	N/A	ATTACHED	N/A	7401061	ATTACHED	N/A	7401061	ATTACHED	N/A	7401061
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable										



RESULTS OF ANALYSES OF WATER

BV Labs ID		PQD272			PQD273			PQD274		
Sampling Date		2021/05/20 13:40			2021/05/21 09:50			2021/05/21 10:30		
COC Number		819780-01-01			819780-01-01			819780-01-01		
	UNITS	SW-17-21	RDL	QC Batch	SW-18-21	RDL	QC Batch	SW-19-21	RDL	QC Batch
Calculated Parameters										
Anion Sum	me/L	0.140	N/A	7365517	0.160	N/A	7365517	0.150	N/A	7365517
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7365509	<1.0	1.0	7365509	<1.0	1.0	7365509
Calculated TDS	mg/L	14	1.0	7365527	20	1.0	7365527	15	1.0	7365527
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7365509	<1.0	1.0	7365509	<1.0	1.0	7365509
Cation Sum	me/L	0.250	N/A	7365517	0.300	N/A	7365517	0.290	N/A	7365517
Hardness (CaCO ₃)	mg/L	2.4	1.0	7366194	4.1	1.0	7366194	3.4	1.0	7365513
Ion Balance (% Difference)	%	28.2	N/A	7365546	30.4	N/A	7365546	31.8	N/A	7365546
Langelier Index (@ 20C)	N/A	NC		7365525	NC		7365525	NC		7365525
Langelier Index (@ 4C)	N/A	NC		7365526	NC		7365526	NC		7365526
Nitrate (N)	mg/L	<0.050	0.050	7365520	<0.050	0.050	7365520	<0.050	0.050	7365520
Saturation pH (@ 20C)	N/A	NC		7365525	NC		7365525	NC		7365525
Saturation pH (@ 4C)	N/A	NC		7365526	NC		7365526	NC		7365526
Inorganics										
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7376366	<5.0	5.0	7376366	<5.0	5.0	7376366
Dissolved Chloride (Cl ⁻)	mg/L	4.9	1.0	7376372	5.7	1.0	7376372	5.2	1.0	7376372
Colour	TCU	140	25	7376375	170	25	7376375	240	25	7376375
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7376379	<0.050	0.050	7376379	<0.050	0.050	7376379
Nitrite (N)	mg/L	<0.010	0.010	7376380	<0.010	0.010	7376380	<0.010	0.010	7376380
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7379449	<0.050	0.050	7379449	<0.050	0.050	7379449
Dissolved Organic Carbon (C)	mg/L	11	0.50	7373765	11	0.50	7373765	18	0.50	7373757
Total Organic Carbon (C)	mg/L	13 (1)	5.0	7373753	11	0.50	7376239	130 (1)	50	7373753
Orthophosphate (P)	mg/L	<0.010	0.010	7376378	<0.010	0.010	7376378	<0.010	0.010	7376378
pH	pH	4.89		7379414	5.53		7379414	4.88		7379414
Reactive Silica (SiO ₂)	mg/L	3.7	0.50	7376374	7.5	0.50	7376374	4.0	0.50	7376374
Dissolved Sulphate (SO ₄)	mg/L	<2.0	2.0	7376373	<2.0	2.0	7376373	<2.0	2.0	7376373
Turbidity	NTU	4.7	0.10	7373427	0.98	0.10	7373427	22	0.10	7373427
Conductivity	uS/cm	30	1.0	7379413	32	1.0	7379413	31	1.0	7379413
Subcontracted Analysis										
Subcontract Parameter	N/A	ATTACHED	N/A	7401061	ATTACHED	N/A	7401061	ATTACHED	N/A	7401061
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Elevated reporting limit due to turbidity.										



RESULTS OF ANALYSES OF WATER

BV Labs ID		PQD275			PQD279		
Sampling Date		2021/05/20 10:35			2021/05/20		
COC Number		819780-01-01			819780-02-01		
	UNITS	SW-20-21	RDL	QC Batch	SWDUPA	RDL	QC Batch
Calculated Parameters							
Anion Sum	me/L	0.170	N/A	7365517	0.190	N/A	7365517
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7365509	<1.0	1.0	7365509
Calculated TDS	mg/L	16	1.0	7365527	14	1.0	7365527
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7365509	<1.0	1.0	7365509
Cation Sum	me/L	0.290	N/A	7365517	0.220	N/A	7365517
Hardness (CaCO ₃)	mg/L	3.2	1.0	7366194	2.7	1.0	7366194
Ion Balance (% Difference)	%	26.1	N/A	7365546	7.32	N/A	7365546
Langelier Index (@ 20C)	N/A	NC		7365525	NC		7365525
Langelier Index (@ 4C)	N/A	NC		7365526	NC		7365526
Nitrate (N)	mg/L	<0.050	0.050	7365520	<0.050	0.050	7366195
Saturation pH (@ 20C)	N/A	NC		7365525	NC		7365525
Saturation pH (@ 4C)	N/A	NC		7365526	NC		7365526
Inorganics							
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7376366	<5.0	5.0	7376366
Dissolved Chloride (Cl ⁻)	mg/L	6.0	1.0	7376372	5.0	1.0	7376372
Colour	TCU	190	25	7376375	39	5.0	7376375
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7376379	<0.050	0.050	7376379
Nitrite (N)	mg/L	<0.010	0.010	7376380	<0.010	0.010	7376380
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7379449	<0.050	0.050	7379452
Dissolved Organic Carbon (C)	mg/L	15	0.50	7376015	4.8	0.50	7376015
Total Organic Carbon (C)	mg/L	15	0.50	7379616	4.9	0.50	7379616
Orthophosphate (P)	mg/L	<0.010	0.010	7376378	<0.010	0.010	7376378
pH	pH	4.97		7379414	5.48		7379414
Reactive Silica (SiO ₂)	mg/L	3.4	0.50	7376374	2.1	0.50	7376374
Dissolved Sulphate (SO ₄)	mg/L	<2.0	2.0	7376373	2.4	2.0	7376373
Turbidity	NTU	1.7	0.10	7376165	0.93	0.10	7376165
Conductivity	uS/cm	33	1.0	7379413	27	1.0	7379413
Subcontracted Analysis							
Subcontract Parameter	N/A	ATTACHED	N/A	7401061	ATTACHED	N/A	7401061
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable							



MERCURY BY COLD VAPOUR AA (WATER)

BV Labs ID		PQD266	PQD267	PQD268	PQD269	PQD270		
Sampling Date		2021/05/21 08:35	2021/05/21 11:10	2021/05/20 14:55	2021/05/20 13:50	2021/05/20 16:35		
COC Number		819780-01-01	819780-01-01	819780-01-01	819780-01-01	819780-01-01		
	UNITS	SW-11-21	SW-12-21	SW-13-21	SW-14-21	SW-15-21	RDL	QC Batch

Metals								
Dissolved Mercury (Hg)	ug/L	<0.013	<0.013	<0.013	<0.013	<0.013	0.013	7371095
Total Mercury (Hg)	ug/L	0.017	0.015	<0.013	<0.013	<0.013	0.013	7373920
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								

BV Labs ID		PQD271	PQD272	PQD273			PQD274		
Sampling Date		2021/05/20 12:30	2021/05/20 13:40	2021/05/21 09:50			2021/05/21 10:30		
COC Number		819780-01-01	819780-01-01	819780-01-01			819780-01-01		
	UNITS	SW-16-21	SW-17-21	SW-18-21	RDL	QC Batch	SW-19-21	RDL	QC Batch

Metals									
Dissolved Mercury (Hg)	ug/L	<0.013	<0.013	<0.013	0.013	7376368			
Total Mercury (Hg)	ug/L	<0.013	<0.013	<0.013	0.013	7373920	0.14	0.013	7373920
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									

BV Labs ID		PQD275	PQD279		
Sampling Date		2021/05/20 10:35	2021/05/20		
COC Number		819780-01-01	819780-02-01		
	UNITS	SW-20-21	SWDUPA	RDL	QC Batch
Metals					
Dissolved Mercury (Hg)	ug/L	<0.013	<0.013	0.013	7376368
Total Mercury (Hg)	ug/L	<0.013	<0.013	0.013	7376363
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PQD266	PQD267	PQD268	PQD269	PQD270		
Sampling Date		2021/05/21 08:35	2021/05/21 11:10	2021/05/20 14:55	2021/05/20 13:50	2021/05/20 16:35		
COC Number		819780-01-01	819780-01-01	819780-01-01	819780-01-01	819780-01-01		
	UNITS	SW-11-21	SW-12-21	SW-13-21	SW-14-21	SW-15-21	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	190	240	280	160	120	5.0	7373422
Total Aluminum (Al)	mg/L	0.243	0.248	0.304	0.174	0.130	0.0050	7375993
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7373422
Total Antimony (Sb)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	7375993
Dissolved Arsenic (As)	ug/L	110	18	2.7	<1.0	<1.0	1.0	7373422
Total Arsenic (As)	mg/L	0.126	0.0202	0.0031	<0.0010	<0.0010	0.0010	7375993
Dissolved Barium (Ba)	ug/L	2.9	2.0	2.1	1.9	2.3	1.0	7373422
Total Barium (Ba)	mg/L	0.0034	0.0019	0.0021	0.0031	0.0024	0.0010	7375993
Dissolved Beryllium (Be)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7373422
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	7375993
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7373422
Total Bismuth (Bi)	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7375993
Dissolved Boron (B)	ug/L	<50	<50	<50	<50	<50	50	7373422
Total Boron (B)	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7375993
Dissolved Cadmium (Cd)	ug/L	0.010	<0.010	<0.010	<0.010	0.011	0.010	7373422
Total Cadmium (Cd)	mg/L	<0.000010	<0.000010	0.000011	<0.000010	0.000011	0.000010	7375993
Dissolved Calcium (Ca)	ug/L	1500	450	490	570	440	100	7373422
Total Calcium (Ca)	mg/L	1.50	0.44	0.48	0.74	0.42	0.10	7375993
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7373422
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	7375993
Dissolved Cobalt (Co)	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	7373422
Total Cobalt (Co)	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00040	7375993
Dissolved Copper (Cu)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7373422
Total Copper (Cu)	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00050	7375993
Dissolved Iron (Fe)	ug/L	810	320	380	210	100	50	7373422
Total Iron (Fe)	mg/L	1.07	0.349	0.495	0.245	0.180	0.050	7375993
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.58	<0.50	<0.50	0.50	7373422
Total Lead (Pb)	mg/L	<0.00050	<0.00050	0.00069	<0.00050	<0.00050	0.00050	7375993
Dissolved Magnesium (Mg)	ug/L	640	340	370	370	440	100	7373422
Total Magnesium (Mg)	mg/L	0.64	0.33	0.38	0.37	0.43	0.10	7375993
Dissolved Manganese (Mn)	ug/L	39	16	23	15	17	2.0	7373422
Total Manganese (Mn)	mg/L	0.0395	0.0151	0.0232	0.0275	0.0170	0.0020	7375993
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7373422
Total Molybdenum (Mo)	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7375993
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7373422
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BV Labs Job #: C1D8409
Report Date: 2021/06/10

Anaconda Mining Inc
Your P.O. #: 0202

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PQD266	PQD267	PQD268	PQD269	PQD270		
Sampling Date		2021/05/21 08:35	2021/05/21 11:10	2021/05/20 14:55	2021/05/20 13:50	2021/05/20 16:35		
COC Number		819780-01-01	819780-01-01	819780-01-01	819780-01-01	819780-01-01		
	UNITS	SW-11-21	SW-12-21	SW-13-21	SW-14-21	SW-15-21	RDL	QC Batch
Total Nickel (Ni)	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7375993
Dissolved Phosphorus (P)	ug/L	<100	<100	<100	<100	<100	100	7373422
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7375993
Dissolved Potassium (K)	ug/L	430	290	350	350	320	100	7373422
Total Potassium (K)	mg/L	0.39	0.27	0.32	0.33	0.29	0.10	7375993
Dissolved Selenium (Se)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7373422
Total Selenium (Se)	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00050	7375993
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7373422
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	7375993
Dissolved Sodium (Na)	ug/L	4900	3300	4000	4100	3600	100	7373422
Total Sodium (Na)	mg/L	4.49	3.07	3.88	3.87	3.38	0.10	7375993
Dissolved Strontium (Sr)	ug/L	11	4.9	5.8	5.8	5.4	2.0	7373422
Total Strontium (Sr)	mg/L	0.0109	0.0050	0.0059	0.0065	0.0053	0.0020	7375993
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7373422
Total Thallium (Tl)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	7375993
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7373422
Total Tin (Sn)	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7375993
Dissolved Titanium (Ti)	ug/L	2.4	3.8	3.0	<2.0	<2.0	2.0	7373422
Total Titanium (Ti)	mg/L	0.0081	0.0036	0.0054	0.0031	<0.0020	0.0020	7375993
Dissolved Uranium (U)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7373422
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	7375993
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7373422
Total Vanadium (V)	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7375993
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.4	<5.0	<5.0	5.0	7373422
Total Zinc (Zn)	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7375993
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BV Labs Job #: C1D8409
Report Date: 2021/06/10

Anaconda Mining Inc
Your P.O. #: 0202

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PQD271	PQD272	PQD273			PQD274		
Sampling Date		2021/05/20 12:30	2021/05/20 13:40	2021/05/21 09:50			2021/05/21 10:30		
COC Number		819780-01-01	819780-01-01	819780-01-01			819780-01-01		
	UNITS	SW-16-21	SW-17-21	SW-18-21	RDL	QC Batch	SW-19-21	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	mg/L						0.389	0.0050	7373414
Dissolved Aluminum (Al)	ug/L	190	210	280	5.0	7376120			
Total Aluminum (Al)	mg/L	0.206	0.242	0.298	0.0050	7375993	4.14	0.0050	7375993
Dissolved Antimony (Sb)	mg/L						<0.0010	0.0010	7373414
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	<1.0	1.0	7376120			
Total Antimony (Sb)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	7375993	<0.0010	0.0010	7375993
Dissolved Arsenic (As)	mg/L						0.0015	0.0010	7373414
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.3	1.0	7376120			
Total Arsenic (As)	mg/L	<0.0010	<0.0010	0.0014	0.0010	7375993	0.0282	0.0010	7375993
Dissolved Barium (Ba)	mg/L						0.0020	0.0010	7373414
Dissolved Barium (Ba)	ug/L	1.6	1.9	2.8	1.0	7376120			
Total Barium (Ba)	mg/L	0.0016	0.0017	0.0027	0.0010	7375993	0.0155	0.0010	7375993
Dissolved Beryllium (Be)	mg/L						<0.0010	0.0010	7373414
Dissolved Beryllium (Be)	ug/L	<1.0	<1.0	<1.0	1.0	7376120			
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	7375993	<0.0010	0.0010	7375993
Dissolved Bismuth (Bi)	mg/L						<0.0020	0.0020	7373414
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	2.0	7376120			
Total Bismuth (Bi)	mg/L	<0.0020	<0.0020	<0.0020	0.0020	7375993	<0.0020	0.0020	7375993
Dissolved Boron (B)	mg/L						<0.050	0.050	7373414
Dissolved Boron (B)	ug/L	<50	<50	<50	50	7376120			
Total Boron (B)	mg/L	<0.050	<0.050	<0.050	0.050	7375993	<0.050	0.050	7375993
Dissolved Cadmium (Cd)	mg/L						0.000027	0.000010	7373414
Dissolved Cadmium (Cd)	ug/L	0.011	<0.010	0.012	0.010	7376120			
Total Cadmium (Cd)	mg/L	<0.000010	<0.000010	<0.000010	0.000010	7375993	0.000053	0.000010	7375993
Dissolved Calcium (Ca)	mg/L						0.62	0.10	7373414
Dissolved Calcium (Ca)	ug/L	410	480	770	100	7376120			
Total Calcium (Ca)	mg/L	0.43	0.44	0.81	0.10	7375993	1.37	0.10	7375993
Dissolved Chromium (Cr)	mg/L						<0.0010	0.0010	7373414
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	1.0	7376120			
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	7375993	0.0055	0.0010	7375993
Dissolved Cobalt (Co)	mg/L						0.00044	0.00040	7373414
Dissolved Cobalt (Co)	ug/L	<0.40	<0.40	0.42	0.40	7376120			
Total Cobalt (Co)	mg/L	<0.00040	<0.00040	<0.00040	0.00040	7375993	0.00175	0.00040	7375993
Dissolved Copper (Cu)	mg/L						0.00096	0.00050	7373414
Dissolved Copper (Cu)	ug/L	<0.50	<0.50	<0.50	0.50	7376120			
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PQD271	PQD272	PQD273			PQD274		
Sampling Date		2021/05/20 12:30	2021/05/20 13:40	2021/05/21 09:50			2021/05/21 10:30		
COC Number		819780-01-01	819780-01-01	819780-01-01			819780-01-01		
	UNITS	SW-16-21	SW-17-21	SW-18-21	RDL	QC Batch	SW-19-21	RDL	QC Batch
Total Copper (Cu)	mg/L	<0.00050	<0.00050	<0.00050	0.00050	7375993	0.00657	0.00050	7375993
Dissolved Iron (Fe)	mg/L						1.03	0.050	7373414
Dissolved Iron (Fe)	ug/L	220	280	830	50	7376120			
Total Iron (Fe)	mg/L	0.248	0.347	0.839	0.050	7375993	30.0	0.050	7375993
Dissolved Lead (Pb)	mg/L						0.00090	0.00050	7373414
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.74	0.50	7376120			
Total Lead (Pb)	mg/L	<0.00050	0.00061	0.00077	0.00050	7375993	0.0114	0.00050	7375993
Dissolved Magnesium (Mg)	mg/L						0.45	0.10	7373414
Dissolved Magnesium (Mg)	ug/L	320	290	520	100	7376120			
Total Magnesium (Mg)	mg/L	0.33	0.29	0.52	0.10	7375993	1.13	0.10	7375993
Dissolved Manganese (Mn)	mg/L						0.0590	0.0020	7373414
Dissolved Manganese (Mn)	ug/L	6.5	8.9	260	2.0	7376120			
Total Manganese (Mn)	mg/L	0.0069	0.0089	0.258	0.0020	7375993	0.254	0.0020	7375993
Dissolved Molybdenum (Mo)	mg/L						<0.0020	0.0020	7373414
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	<2.0	2.0	7376120			
Total Molybdenum (Mo)	mg/L	<0.0020	0.0022	<0.0020	0.0020	7375993	<0.0020	0.0020	7375993
Dissolved Nickel (Ni)	mg/L						<0.0020	0.0020	7373414
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	<2.0	2.0	7376120			
Total Nickel (Ni)	mg/L	<0.0020	<0.0020	<0.0020	0.0020	7375993	0.0040	0.0020	7375993
Dissolved Phosphorus (P)	mg/L						<0.10	0.10	7373414
Dissolved Phosphorus (P)	ug/L	<100	<100	<100	100	7376120			
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	0.10	7375993	0.38	0.10	7375993
Dissolved Potassium (K)	mg/L						0.32	0.10	7373414
Dissolved Potassium (K)	ug/L	280	400	470	100	7376120			
Total Potassium (K)	mg/L	0.28	0.36	0.45	0.10	7375993	0.64	0.10	7375993
Dissolved Selenium (Se)	mg/L						<0.00050	0.00050	7373414
Dissolved Selenium (Se)	ug/L	<0.50	<0.50	<0.50	0.50	7376120			
Total Selenium (Se)	mg/L	<0.00050	<0.00050	<0.00050	0.00050	7375993	0.00088	0.00050	7375993
Dissolved Silver (Ag)	mg/L						<0.00010	0.00010	7373414
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	0.10	7376120			
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	7375993	<0.00010	0.00010	7375993
Dissolved Sodium (Na)	mg/L						3.69	0.10	7373414
Dissolved Sodium (Na)	ug/L	3500	3800	4000	100	7376120			
Total Sodium (Na)	mg/L	3.62	3.56	3.98	0.10	7375993	3.69	0.10	7375993
Dissolved Strontium (Sr)	mg/L						0.0047	0.0020	7373414
Dissolved Strontium (Sr)	ug/L	4.3	4.6	6.5	2.0	7376120			
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BV Labs Job #: C1D8409
Report Date: 2021/06/10

Anaconda Mining Inc
Your P.O. #: 0202

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PQD271	PQD272	PQD273			PQD274		
Sampling Date		2021/05/20 12:30	2021/05/20 13:40	2021/05/21 09:50			2021/05/21 10:30		
COC Number		819780-01-01	819780-01-01	819780-01-01			819780-01-01		
	UNITS	SW-16-21	SW-17-21	SW-18-21	RDL	QC Batch	SW-19-21	RDL	QC Batch
Total Strontium (Sr)	mg/L	0.0049	0.0049	0.0060	0.0020	7375993	0.0123	0.0020	7375993
Dissolved Thallium (Tl)	mg/L						<0.00010	0.00010	7373414
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	0.10	7376120			
Total Thallium (Tl)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	7375993	<0.00010	0.00010	7375993
Dissolved Tin (Sn)	mg/L						<0.0020	0.0020	7373414
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	2.0	7376120			
Total Tin (Sn)	mg/L	<0.0020	<0.0020	<0.0020	0.0020	7375993	<0.0020	0.0020	7375993
Dissolved Titanium (Ti)	mg/L						0.0063	0.0020	7373414
Dissolved Titanium (Ti)	ug/L	2.7	3.7	4.2	2.0	7376120			
Total Titanium (Ti)	mg/L	0.0032	0.0045	0.0061	0.0020	7375993	0.164	0.0020	7375993
Dissolved Uranium (U)	mg/L						<0.00010	0.00010	7373414
Dissolved Uranium (U)	ug/L	<0.10	<0.10	<0.10	0.10	7376120			
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	7375993	0.00020	0.00010	7375993
Dissolved Vanadium (V)	mg/L						<0.0020	0.0020	7373414
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	<2.0	2.0	7376120			
Total Vanadium (V)	mg/L	<0.0020	<0.0020	<0.0020	0.0020	7375993	0.0150	0.0020	7375993
Dissolved Zinc (Zn)	mg/L						<0.0050	0.0050	7373414
Dissolved Zinc (Zn)	ug/L	<5.0	6.3	<5.0	5.0	7376120			
Total Zinc (Zn)	mg/L	<0.0050	<0.0050	<0.0050	0.0050	7375993	0.0097	0.0050	7375993
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PQD275	PQD279		
Sampling Date		2021/05/20 10:35	2021/05/20		
COC Number		819780-01-01	819780-02-01		
	UNITS	SW-20-21	SWDUPA	RDL	QC Batch
Metals					
Dissolved Aluminum (Al)	ug/L	420	110	5.0	7376120
Total Aluminum (Al)	mg/L	0.426	0.131	0.0050	7376095
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	1.0	7376120
Total Antimony (Sb)	mg/L	<0.0010	<0.0010	0.0010	7376095
Dissolved Arsenic (As)	ug/L	9.2	<1.0	1.0	7376120
Total Arsenic (As)	mg/L	0.0094	<0.0010	0.0010	7376095
Dissolved Barium (Ba)	ug/L	2.3	2.1	1.0	7376120
Total Barium (Ba)	mg/L	0.0024	0.0024	0.0010	7376095
Dissolved Beryllium (Be)	ug/L	<1.0	<1.0	1.0	7376120
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	0.0010	7376095
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	2.0	7376120
Total Bismuth (Bi)	mg/L	<0.0020	<0.0020	0.0020	7376095
Dissolved Boron (B)	ug/L	<50	<50	50	7376120
Total Boron (B)	mg/L	<0.050	<0.050	0.050	7376095
Dissolved Cadmium (Cd)	ug/L	0.015	0.011	0.010	7376120
Total Cadmium (Cd)	mg/L	<0.000010	<0.000010	0.000010	7376095
Dissolved Calcium (Ca)	ug/L	550	400	100	7376120
Total Calcium (Ca)	mg/L	0.55	0.42	0.10	7376095
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	1.0	7376120
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	0.0010	7376095
Dissolved Cobalt (Co)	ug/L	<0.40	<0.40	0.40	7376120
Total Cobalt (Co)	mg/L	<0.00040	<0.00040	0.00040	7376095
Dissolved Copper (Cu)	ug/L	<0.50	<0.50	0.50	7376120
Total Copper (Cu)	mg/L	0.00056	0.00218	0.00050	7376095
Dissolved Iron (Fe)	ug/L	650	100	50	7376120
Total Iron (Fe)	mg/L	0.631	0.173	0.050	7376095
Dissolved Lead (Pb)	ug/L	0.73	<0.50	0.50	7376120
Total Lead (Pb)	mg/L	0.00074	<0.00050	0.00050	7376095
Dissolved Magnesium (Mg)	ug/L	450	420	100	7376120
Total Magnesium (Mg)	mg/L	0.44	0.42	0.10	7376095
Dissolved Manganese (Mn)	ug/L	35	17	2.0	7376120
Total Manganese (Mn)	mg/L	0.0353	0.0170	0.0020	7376095
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	2.0	7376120
Total Molybdenum (Mo)	mg/L	<0.0020	<0.0020	0.0020	7376095
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	2.0	7376120
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PQD275	PQD279		
Sampling Date		2021/05/20 10:35	2021/05/20		
COC Number		819780-01-01	819780-02-01		
	UNITS	SW-20-21	SWDUPA	RDL	QC Batch
Total Nickel (Ni)	mg/L	<0.0020	<0.0020	0.0020	7376095
Dissolved Phosphorus (P)	ug/L	<100	<100	100	7376120
Total Phosphorus (P)	mg/L	<0.10	<0.10	0.10	7376095
Dissolved Potassium (K)	ug/L	480	320	100	7376120
Total Potassium (K)	mg/L	0.44	0.29	0.10	7376095
Dissolved Selenium (Se)	ug/L	<0.50	<0.50	0.50	7376120
Total Selenium (Se)	mg/L	<0.00050	<0.00050	0.00050	7376095
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	0.10	7376120
Total Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	7376095
Dissolved Sodium (Na)	ug/L	4000	3500	100	7376120
Total Sodium (Na)	mg/L	3.89	3.41	0.10	7376095
Dissolved Strontium (Sr)	ug/L	6.5	5.1	2.0	7376120
Total Strontium (Sr)	mg/L	0.0061	0.0052	0.0020	7376095
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	0.10	7376120
Total Thallium (Tl)	mg/L	<0.00010	<0.00010	0.00010	7376095
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	2.0	7376120
Total Tin (Sn)	mg/L	<0.0020	<0.0020	0.0020	7376095
Dissolved Titanium (Ti)	ug/L	6.2	<2.0	2.0	7376120
Total Titanium (Ti)	mg/L	0.0078	0.0021	0.0020	7376095
Dissolved Uranium (U)	ug/L	<0.10	<0.10	0.10	7376120
Total Uranium (U)	mg/L	<0.00010	<0.00010	0.00010	7376095
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	2.0	7376120
Total Vanadium (V)	mg/L	<0.0020	<0.0020	0.0020	7376095
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	7376120
Total Zinc (Zn)	mg/L	<0.0050	<0.0050	0.0050	7376095
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.7°C
Package 2	0.3°C

Sample PQD266 [SW-11-21] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample PQD267 [SW-12-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PQD268 [SW-13-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PQD269 [SW-14-21] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.
RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PQD270 [SW-15-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PQD271 [SW-16-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PQD272 [SW-17-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PQD273 [SW-18-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PQD274 [SW-19-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PQD275 [SW-20-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PQD279 [SWDUPA] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Results relate only to the items tested.



BV Labs Job #: C1D8409
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Anaconda Mining Inc
Your P.O. #: 0202

QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
	7371095	NHU	Matrix Spike	Dissolved Mercury (Hg)	2021/05/27		100	%	80 - 120
	7371095	NHU	Spiked Blank	Dissolved Mercury (Hg)	2021/05/27		102	%	80 - 120
	7371095	NHU	Method Blank	Dissolved Mercury (Hg)	2021/05/27	<0.013		ug/L	
	7371095	NHU	RPD	Dissolved Mercury (Hg)	2021/05/27	NC		%	20
	7373362	SHW	Spiked Blank	pH	2021/05/27		101	%	97 - 103
	7373362	SHW	RPD	pH	2021/05/27	1.0		%	N/A
	7373414	BAN	Matrix Spike [PQD274-01]	Dissolved Aluminum (Al)	2021/05/27		97	%	80 - 120
				Dissolved Antimony (Sb)	2021/05/27		99	%	80 - 120
				Dissolved Arsenic (As)	2021/05/27		96	%	80 - 120
				Dissolved Barium (Ba)	2021/05/27		98	%	80 - 120
				Dissolved Beryllium (Be)	2021/05/27		99	%	80 - 120
				Dissolved Bismuth (Bi)	2021/05/27		90	%	80 - 120
				Dissolved Boron (B)	2021/05/27		95	%	80 - 120
				Dissolved Cadmium (Cd)	2021/05/27		98	%	80 - 120
				Dissolved Calcium (Ca)	2021/05/27		92	%	80 - 120
				Dissolved Chromium (Cr)	2021/05/27		96	%	80 - 120
				Dissolved Cobalt (Co)	2021/05/27		99	%	80 - 120
				Dissolved Copper (Cu)	2021/05/27		97	%	80 - 120
				Dissolved Iron (Fe)	2021/05/27		NC	%	80 - 120
				Dissolved Lead (Pb)	2021/05/27		100	%	80 - 120
				Dissolved Magnesium (Mg)	2021/05/27		104	%	80 - 120
				Dissolved Manganese (Mn)	2021/05/27		95	%	80 - 120
				Dissolved Molybdenum (Mo)	2021/05/27		102	%	80 - 120
				Dissolved Nickel (Ni)	2021/05/27		100	%	80 - 120
				Dissolved Phosphorus (P)	2021/05/27		101	%	80 - 120
				Dissolved Potassium (K)	2021/05/27		98	%	80 - 120
				Dissolved Selenium (Se)	2021/05/27		97	%	80 - 120
				Dissolved Silver (Ag)	2021/05/27		93	%	80 - 120
				Dissolved Sodium (Na)	2021/05/27		101	%	80 - 120
				Dissolved Strontium (Sr)	2021/05/27		100	%	80 - 120
				Dissolved Thallium (Tl)	2021/05/27		99	%	80 - 120
				Dissolved Tin (Sn)	2021/05/27		95	%	80 - 120
				Dissolved Titanium (Ti)	2021/05/27		106	%	80 - 120
				Dissolved Uranium (U)	2021/05/27		102	%	80 - 120
				Dissolved Vanadium (V)	2021/05/27		98	%	80 - 120
				Dissolved Zinc (Zn)	2021/05/27		100	%	80 - 120
	7373414	BAN	Spiked Blank	Dissolved Aluminum (Al)	2021/05/27		99	%	80 - 120
				Dissolved Antimony (Sb)	2021/05/27		98	%	80 - 120
				Dissolved Arsenic (As)	2021/05/27		95	%	80 - 120
				Dissolved Barium (Ba)	2021/05/27		97	%	80 - 120
				Dissolved Beryllium (Be)	2021/05/27		101	%	80 - 120
				Dissolved Bismuth (Bi)	2021/05/27		98	%	80 - 120
				Dissolved Boron (B)	2021/05/27		100	%	80 - 120
				Dissolved Cadmium (Cd)	2021/05/27		97	%	80 - 120
				Dissolved Calcium (Ca)	2021/05/27		93	%	80 - 120
				Dissolved Chromium (Cr)	2021/05/27		94	%	80 - 120
				Dissolved Cobalt (Co)	2021/05/27		98	%	80 - 120
				Dissolved Copper (Cu)	2021/05/27		95	%	80 - 120
				Dissolved Iron (Fe)	2021/05/27		101	%	80 - 120
				Dissolved Lead (Pb)	2021/05/27		100	%	80 - 120
				Dissolved Magnesium (Mg)	2021/05/27		101	%	80 - 120
				Dissolved Manganese (Mn)	2021/05/27		99	%	80 - 120
				Dissolved Molybdenum (Mo)	2021/05/27		103	%	80 - 120
				Dissolved Nickel (Ni)	2021/05/27		98	%	80 - 120



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Dissolved Phosphorus (P)	2021/05/27		101	%	80 - 120
				Dissolved Potassium (K)	2021/05/27		99	%	80 - 120
				Dissolved Selenium (Se)	2021/05/27		96	%	80 - 120
				Dissolved Silver (Ag)	2021/05/27		95	%	80 - 120
				Dissolved Sodium (Na)	2021/05/27		101	%	80 - 120
				Dissolved Strontium (Sr)	2021/05/27		98	%	80 - 120
				Dissolved Thallium (Tl)	2021/05/27		99	%	80 - 120
				Dissolved Tin (Sn)	2021/05/27		101	%	80 - 120
				Dissolved Titanium (Ti)	2021/05/27		100	%	80 - 120
				Dissolved Uranium (U)	2021/05/27		100	%	80 - 120
				Dissolved Vanadium (V)	2021/05/27		97	%	80 - 120
				Dissolved Zinc (Zn)	2021/05/27		101	%	80 - 120
7373414	BAN		Method Blank	Dissolved Aluminum (Al)	2021/05/27	<0.0050		mg/L	
				Dissolved Antimony (Sb)	2021/05/27	<0.0010		mg/L	
				Dissolved Arsenic (As)	2021/05/27	<0.0010		mg/L	
				Dissolved Barium (Ba)	2021/05/27	<0.0010		mg/L	
				Dissolved Beryllium (Be)	2021/05/27	<0.0010		mg/L	
				Dissolved Bismuth (Bi)	2021/05/27	<0.0020		mg/L	
				Dissolved Boron (B)	2021/05/27	<0.050		mg/L	
				Dissolved Cadmium (Cd)	2021/05/27	<0.000010		mg/L	
				Dissolved Calcium (Ca)	2021/05/27	<0.10		mg/L	
				Dissolved Chromium (Cr)	2021/05/27	<0.0010		mg/L	
				Dissolved Cobalt (Co)	2021/05/27	<0.00040		mg/L	
				Dissolved Copper (Cu)	2021/05/27	<0.00050		mg/L	
				Dissolved Iron (Fe)	2021/05/27	<0.050		mg/L	
				Dissolved Lead (Pb)	2021/05/27	<0.00050		mg/L	
				Dissolved Magnesium (Mg)	2021/05/27	<0.10		mg/L	
				Dissolved Manganese (Mn)	2021/05/27	<0.0020		mg/L	
				Dissolved Molybdenum (Mo)	2021/05/27	<0.0020		mg/L	
				Dissolved Nickel (Ni)	2021/05/27	<0.0020		mg/L	
				Dissolved Phosphorus (P)	2021/05/27	<0.10		mg/L	
				Dissolved Potassium (K)	2021/05/27	<0.10		mg/L	
				Dissolved Selenium (Se)	2021/05/27	<0.00050		mg/L	
				Dissolved Silver (Ag)	2021/05/27	<0.00010		mg/L	
				Dissolved Sodium (Na)	2021/05/27	<0.10		mg/L	
				Dissolved Strontium (Sr)	2021/05/27	<0.0020		mg/L	
				Dissolved Thallium (Tl)	2021/05/27	<0.00010		mg/L	
				Dissolved Tin (Sn)	2021/05/27	<0.0020		mg/L	
				Dissolved Titanium (Ti)	2021/05/27	<0.0020		mg/L	
				Dissolved Uranium (U)	2021/05/27	<0.00010		mg/L	
				Dissolved Vanadium (V)	2021/05/27	<0.0020		mg/L	
				Dissolved Zinc (Zn)	2021/05/27	<0.0050		mg/L	
7373414	BAN		RPD [PQD274-01]	Dissolved Aluminum (Al)	2021/05/27	0.52		%	20
				Dissolved Antimony (Sb)	2021/05/27	NC		%	20
				Dissolved Arsenic (As)	2021/05/27	4.0		%	20
				Dissolved Barium (Ba)	2021/05/27	16		%	20
				Dissolved Beryllium (Be)	2021/05/27	NC		%	20
				Dissolved Bismuth (Bi)	2021/05/27	NC		%	20
				Dissolved Boron (B)	2021/05/27	NC		%	20
				Dissolved Cadmium (Cd)	2021/05/27	NC		%	20
				Dissolved Calcium (Ca)	2021/05/27	2.6		%	20
				Dissolved Chromium (Cr)	2021/05/27	NC		%	20
				Dissolved Cobalt (Co)	2021/05/27	3.1		%	20
				Dissolved Copper (Cu)	2021/05/27	9.6		%	20
				Dissolved Iron (Fe)	2021/05/27	1.1		%	20



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7373422	BAN	Matrix Spike	Dissolved Lead (Pb)	2021/05/27	1.7			%	20
			Dissolved Magnesium (Mg)	2021/05/27	0.27			%	20
			Dissolved Manganese (Mn)	2021/05/27	2.7			%	20
			Dissolved Molybdenum (Mo)	2021/05/27	NC			%	20
			Dissolved Nickel (Ni)	2021/05/27	NC			%	20
			Dissolved Phosphorus (P)	2021/05/27	NC			%	20
			Dissolved Potassium (K)	2021/05/27	3.7			%	20
			Dissolved Selenium (Se)	2021/05/27	NC			%	20
			Dissolved Silver (Ag)	2021/05/27	NC			%	20
			Dissolved Sodium (Na)	2021/05/27	2.2			%	20
			Dissolved Strontium (Sr)	2021/05/27	9.8			%	20
			Dissolved Thallium (Tl)	2021/05/27	NC			%	20
			Dissolved Tin (Sn)	2021/05/27	NC			%	20
			Dissolved Titanium (Ti)	2021/05/27	4.0			%	20
			Dissolved Uranium (U)	2021/05/27	NC			%	20
			Dissolved Vanadium (V)	2021/05/27	NC			%	20
			Dissolved Zinc (Zn)	2021/05/27	NC			%	20
			Dissolved Aluminum (Al)	2021/05/27			99	%	80 - 120
			Dissolved Antimony (Sb)	2021/05/27			101	%	80 - 120
			Dissolved Arsenic (As)	2021/05/27			96	%	80 - 120
			Dissolved Barium (Ba)	2021/05/27			96	%	80 - 120
			Dissolved Beryllium (Be)	2021/05/27			102	%	80 - 120
			Dissolved Bismuth (Bi)	2021/05/27			96	%	80 - 120
			Dissolved Boron (B)	2021/05/27			103	%	80 - 120
			Dissolved Cadmium (Cd)	2021/05/27			97	%	80 - 120
			Dissolved Calcium (Ca)	2021/05/27			NC	%	80 - 120
			Dissolved Chromium (Cr)	2021/05/27			95	%	80 - 120
			Dissolved Cobalt (Co)	2021/05/27			95	%	80 - 120
			Dissolved Copper (Cu)	2021/05/27			93	%	80 - 120
			Dissolved Iron (Fe)	2021/05/27			NC	%	80 - 120
			Dissolved Lead (Pb)	2021/05/27			98	%	80 - 120
			Dissolved Magnesium (Mg)	2021/05/27			NC	%	80 - 120
			Dissolved Manganese (Mn)	2021/05/27			NC	%	80 - 120
			Dissolved Molybdenum (Mo)	2021/05/27			106	%	80 - 120
			Dissolved Nickel (Ni)	2021/05/27			95	%	80 - 120
			Dissolved Phosphorus (P)	2021/05/27			103	%	80 - 120
			Dissolved Potassium (K)	2021/05/27			105	%	80 - 120
			Dissolved Selenium (Se)	2021/05/27			98	%	80 - 120
			Dissolved Silver (Ag)	2021/05/27			86	%	80 - 120
			Dissolved Sodium (Na)	2021/05/27			NC	%	80 - 120
			Dissolved Strontium (Sr)	2021/05/27			NC	%	80 - 120
			Dissolved Thallium (Tl)	2021/05/27			97	%	80 - 120
			Dissolved Tin (Sn)	2021/05/27			102	%	80 - 120
			Dissolved Titanium (Ti)	2021/05/27			100	%	80 - 120
			Dissolved Uranium (U)	2021/05/27			103	%	80 - 120
			Dissolved Vanadium (V)	2021/05/27			98	%	80 - 120
			Dissolved Zinc (Zn)	2021/05/27			97	%	80 - 120
7373422	BAN	Spiked Blank	Dissolved Aluminum (Al)	2021/05/27			98	%	80 - 120
			Dissolved Antimony (Sb)	2021/05/27			96	%	80 - 120
			Dissolved Arsenic (As)	2021/05/27			97	%	80 - 120
			Dissolved Barium (Ba)	2021/05/27			96	%	80 - 120
			Dissolved Beryllium (Be)	2021/05/27			106	%	80 - 120
			Dissolved Bismuth (Bi)	2021/05/27			97	%	80 - 120
			Dissolved Boron (B)	2021/05/27			105	%	80 - 120
			Dissolved Cadmium (Cd)	2021/05/27			98	%	80 - 120



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QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Dissolved Calcium (Ca)	2021/05/27		93	%	80 - 120
				Dissolved Chromium (Cr)	2021/05/27		97	%	80 - 120
				Dissolved Cobalt (Co)	2021/05/27		99	%	80 - 120
				Dissolved Copper (Cu)	2021/05/27		99	%	80 - 120
				Dissolved Iron (Fe)	2021/05/27		101	%	80 - 120
				Dissolved Lead (Pb)	2021/05/27		99	%	80 - 120
				Dissolved Magnesium (Mg)	2021/05/27		103	%	80 - 120
				Dissolved Manganese (Mn)	2021/05/27		98	%	80 - 120
				Dissolved Molybdenum (Mo)	2021/05/27		102	%	80 - 120
				Dissolved Nickel (Ni)	2021/05/27		101	%	80 - 120
				Dissolved Phosphorus (P)	2021/05/27		99	%	80 - 120
				Dissolved Potassium (K)	2021/05/27		97	%	80 - 120
				Dissolved Selenium (Se)	2021/05/27		100	%	80 - 120
				Dissolved Silver (Ag)	2021/05/27		96	%	80 - 120
				Dissolved Sodium (Na)	2021/05/27		105	%	80 - 120
				Dissolved Strontium (Sr)	2021/05/27		97	%	80 - 120
				Dissolved Thallium (Tl)	2021/05/27		98	%	80 - 120
				Dissolved Tin (Sn)	2021/05/27		97	%	80 - 120
				Dissolved Titanium (Ti)	2021/05/27		98	%	80 - 120
				Dissolved Uranium (U)	2021/05/27		101	%	80 - 120
				Dissolved Vanadium (V)	2021/05/27		99	%	80 - 120
				Dissolved Zinc (Zn)	2021/05/27		101	%	80 - 120
7373422	BAN		Method Blank	Dissolved Aluminum (Al)	2021/05/27	<5.0		ug/L	
				Dissolved Antimony (Sb)	2021/05/27	<1.0		ug/L	
				Dissolved Arsenic (As)	2021/05/27	<1.0		ug/L	
				Dissolved Barium (Ba)	2021/05/27	<1.0		ug/L	
				Dissolved Beryllium (Be)	2021/05/27	<1.0		ug/L	
				Dissolved Bismuth (Bi)	2021/05/27	<2.0		ug/L	
				Dissolved Boron (B)	2021/05/27	<50		ug/L	
				Dissolved Cadmium (Cd)	2021/05/27	<0.010		ug/L	
				Dissolved Calcium (Ca)	2021/05/27	<100		ug/L	
				Dissolved Chromium (Cr)	2021/05/27	<1.0		ug/L	
				Dissolved Cobalt (Co)	2021/05/27	<0.40		ug/L	
				Dissolved Copper (Cu)	2021/05/27	<0.50		ug/L	
				Dissolved Iron (Fe)	2021/05/27	<50		ug/L	
				Dissolved Lead (Pb)	2021/05/27	<0.50		ug/L	
				Dissolved Magnesium (Mg)	2021/05/27	<100		ug/L	
				Dissolved Manganese (Mn)	2021/05/27	<2.0		ug/L	
				Dissolved Molybdenum (Mo)	2021/05/27	<2.0		ug/L	
				Dissolved Nickel (Ni)	2021/05/27	<2.0		ug/L	
				Dissolved Phosphorus (P)	2021/05/27	<100		ug/L	
				Dissolved Potassium (K)	2021/05/27	<100		ug/L	
				Dissolved Selenium (Se)	2021/05/27	<0.50		ug/L	
				Dissolved Silver (Ag)	2021/05/27	<0.10		ug/L	
				Dissolved Sodium (Na)	2021/05/27	<100		ug/L	
				Dissolved Strontium (Sr)	2021/05/27	<2.0		ug/L	
				Dissolved Thallium (Tl)	2021/05/27	<0.10		ug/L	
				Dissolved Tin (Sn)	2021/05/27	<2.0		ug/L	
				Dissolved Titanium (Ti)	2021/05/27	<2.0		ug/L	
				Dissolved Uranium (U)	2021/05/27	<0.10		ug/L	
				Dissolved Vanadium (V)	2021/05/27	<2.0		ug/L	
				Dissolved Zinc (Zn)	2021/05/27	<5.0		ug/L	
7373422	BAN	RPD		Dissolved Lead (Pb)	2021/05/27	NC		%	20
7373427	SHW	QC Standard		Turbidity	2021/05/27		104	%	80 - 120
7373427	SHW	Spiked Blank		Turbidity	2021/05/27		103	%	80 - 120



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	7373427	SHW	Method Blank	Turbidity	2021/05/27	<0.10		NTU	
	7373427	SHW	RPD	Turbidity	2021/05/27	10		%	20
	7373753	YLG	Matrix Spike	Total Organic Carbon (C)	2021/05/27		100	%	85 - 115
	7373753	YLG	Spiked Blank	Total Organic Carbon (C)	2021/05/27		102	%	80 - 120
	7373753	YLG	Method Blank	Total Organic Carbon (C)	2021/05/27	<0.50		mg/L	
	7373753	YLG	RPD	Total Organic Carbon (C)	2021/05/27	1.2		%	15
	7373757	YLG	Matrix Spike	Dissolved Organic Carbon (C)	2021/05/27		99	%	85 - 115
	7373757	YLG	Spiked Blank	Dissolved Organic Carbon (C)	2021/05/27		99	%	80 - 120
	7373757	YLG	Method Blank	Dissolved Organic Carbon (C)	2021/05/27	<0.50		mg/L	
	7373757	YLG	RPD	Dissolved Organic Carbon (C)	2021/05/27	NC		%	15
	7373765	YLG	Matrix Spike	Dissolved Organic Carbon (C)	2021/05/28		102	%	85 - 115
	7373765	YLG	Spiked Blank	Dissolved Organic Carbon (C)	2021/05/27		100	%	80 - 120
	7373765	YLG	Method Blank	Dissolved Organic Carbon (C)	2021/05/27	<0.50		mg/L	
	7373765	YLG	RPD	Dissolved Organic Carbon (C)	2021/05/28	1.4		%	15
	7373920	NHU	Matrix Spike	Total Mercury (Hg)	2021/05/28		95	%	80 - 120
	7373920	NHU	Spiked Blank	Total Mercury (Hg)	2021/05/28		108	%	80 - 120
	7373920	NHU	Method Blank	Total Mercury (Hg)	2021/05/28	<0.013		ug/L	
	7373920	NHU	RPD	Total Mercury (Hg)	2021/05/28	NC		%	20
	7373989	YLG	Matrix Spike	Total Organic Carbon (C)	2021/05/28		93	%	85 - 115
	7373989	YLG	Spiked Blank	Total Organic Carbon (C)	2021/05/28		99	%	80 - 120
	7373989	YLG	Method Blank	Total Organic Carbon (C)	2021/05/28	<0.50		mg/L	
	7373989	YLG	RPD	Total Organic Carbon (C)	2021/05/28	NC		%	15
	7375993	BAN	Matrix Spike	Total Aluminum (Al)	2021/05/28		101	%	80 - 120
				Total Antimony (Sb)	2021/05/28		99	%	80 - 120
				Total Arsenic (As)	2021/05/28		94	%	80 - 120
				Total Barium (Ba)	2021/05/28		95	%	80 - 120
				Total Beryllium (Be)	2021/05/28		97	%	80 - 120
				Total Bismuth (Bi)	2021/05/28		95	%	80 - 120
				Total Boron (B)	2021/05/28		94	%	80 - 120
				Total Cadmium (Cd)	2021/05/28		95	%	80 - 120
				Total Calcium (Ca)	2021/05/28		88	%	80 - 120
				Total Chromium (Cr)	2021/05/28		93	%	80 - 120
				Total Cobalt (Co)	2021/05/28		96	%	80 - 120
				Total Copper (Cu)	2021/05/28		95	%	80 - 120
				Total Iron (Fe)	2021/05/28		101	%	80 - 120
				Total Lead (Pb)	2021/05/28		95	%	80 - 120
				Total Magnesium (Mg)	2021/05/28		97	%	80 - 120
				Total Manganese (Mn)	2021/05/28		97	%	80 - 120
				Total Molybdenum (Mo)	2021/05/28		102	%	80 - 120
				Total Nickel (Ni)	2021/05/28		96	%	80 - 120
				Total Phosphorus (P)	2021/05/28		102	%	80 - 120
				Total Potassium (K)	2021/05/28		99	%	80 - 120
				Total Selenium (Se)	2021/05/28		97	%	80 - 120
				Total Silver (Ag)	2021/05/28		95	%	80 - 120
				Total Sodium (Na)	2021/05/28		97	%	80 - 120
				Total Strontium (Sr)	2021/05/28		94	%	80 - 120
				Total Thallium (Tl)	2021/05/28		96	%	80 - 120
				Total Tin (Sn)	2021/05/28		100	%	80 - 120
				Total Titanium (Ti)	2021/05/28		100	%	80 - 120
				Total Uranium (U)	2021/05/28		101	%	80 - 120
				Total Vanadium (V)	2021/05/28		95	%	80 - 120
				Total Zinc (Zn)	2021/05/28		94	%	80 - 120
	7375993	BAN	Spiked Blank	Total Aluminum (Al)	2021/05/28		97	%	80 - 120
				Total Antimony (Sb)	2021/05/28		96	%	80 - 120
				Total Arsenic (As)	2021/05/28		92	%	80 - 120



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7375993	BAN	Method Blank	Total Barium (Ba)	2021/05/28		93	%	80 - 120
			Total Beryllium (Be)	2021/05/28		95	%	80 - 120
			Total Bismuth (Bi)	2021/05/28		96	%	80 - 120
			Total Boron (B)	2021/05/28		93	%	80 - 120
			Total Cadmium (Cd)	2021/05/28		95	%	80 - 120
			Total Calcium (Ca)	2021/05/28		89	%	80 - 120
			Total Chromium (Cr)	2021/05/28		95	%	80 - 120
			Total Cobalt (Co)	2021/05/28		96	%	80 - 120
			Total Copper (Cu)	2021/05/28		96	%	80 - 120
			Total Iron (Fe)	2021/05/28		98	%	80 - 120
			Total Lead (Pb)	2021/05/28		95	%	80 - 120
			Total Magnesium (Mg)	2021/05/28		101	%	80 - 120
			Total Manganese (Mn)	2021/05/28		97	%	80 - 120
			Total Molybdenum (Mo)	2021/05/28		98	%	80 - 120
			Total Nickel (Ni)	2021/05/28		95	%	80 - 120
			Total Phosphorus (P)	2021/05/28		99	%	80 - 120
			Total Potassium (K)	2021/05/28		97	%	80 - 120
			Total Selenium (Se)	2021/05/28		95	%	80 - 120
			Total Silver (Ag)	2021/05/28		94	%	80 - 120
			Total Sodium (Na)	2021/05/28		96	%	80 - 120
			Total Strontium (Sr)	2021/05/28		95	%	80 - 120
			Total Thallium (Tl)	2021/05/28		95	%	80 - 120
			Total Tin (Sn)	2021/05/28		94	%	80 - 120
			Total Titanium (Ti)	2021/05/28		96	%	80 - 120
			Total Uranium (U)	2021/05/28		100	%	80 - 120
			Total Vanadium (V)	2021/05/28		95	%	80 - 120
			Total Zinc (Zn)	2021/05/28		94	%	80 - 120
			Total Aluminum (Al)	2021/05/28	<0.0050		mg/L	
			Total Antimony (Sb)	2021/05/28	<0.0010		mg/L	
			Total Arsenic (As)	2021/05/28	<0.0010		mg/L	
			Total Barium (Ba)	2021/05/28	<0.0010		mg/L	
			Total Beryllium (Be)	2021/05/28	<0.0010		mg/L	
			Total Bismuth (Bi)	2021/05/28	<0.0020		mg/L	
			Total Boron (B)	2021/05/28	<0.050		mg/L	
			Total Cadmium (Cd)	2021/05/28	<0.000010		mg/L	
			Total Calcium (Ca)	2021/05/28	<0.10		mg/L	
			Total Chromium (Cr)	2021/05/28	<0.0010		mg/L	
			Total Cobalt (Co)	2021/05/28	<0.00040		mg/L	
			Total Copper (Cu)	2021/05/28	<0.00050		mg/L	
			Total Iron (Fe)	2021/05/28	<0.050		mg/L	
			Total Lead (Pb)	2021/05/28	<0.00050		mg/L	
			Total Magnesium (Mg)	2021/05/28	<0.10		mg/L	
			Total Manganese (Mn)	2021/05/28	<0.0020		mg/L	
			Total Molybdenum (Mo)	2021/05/28	<0.0020		mg/L	
			Total Nickel (Ni)	2021/05/28	<0.0020		mg/L	
			Total Phosphorus (P)	2021/05/28	<0.10		mg/L	
			Total Potassium (K)	2021/05/28	<0.10		mg/L	
			Total Selenium (Se)	2021/05/28	<0.00050		mg/L	
			Total Silver (Ag)	2021/05/28	<0.00010		mg/L	
			Total Sodium (Na)	2021/05/28	<0.10		mg/L	
			Total Strontium (Sr)	2021/05/28	<0.0020		mg/L	
			Total Thallium (Tl)	2021/05/28	<0.00010		mg/L	
			Total Tin (Sn)	2021/05/28	<0.0020		mg/L	
			Total Titanium (Ti)	2021/05/28	<0.0020		mg/L	
			Total Uranium (U)	2021/05/28	<0.00010		mg/L	



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7375993	BAN	RPD	Total Vanadium (V)	2021/05/28	<0.0020		mg/L	
			Total Zinc (Zn)	2021/05/28	<0.0050		mg/L	
			Total Aluminum (Al)	2021/05/28	13		%	20
			Total Antimony (Sb)	2021/05/28	NC		%	20
			Total Arsenic (As)	2021/05/28	NC		%	20
			Total Barium (Ba)	2021/05/28	6.8		%	20
			Total Beryllium (Be)	2021/05/28	NC		%	20
			Total Bismuth (Bi)	2021/05/28	NC		%	20
			Total Boron (B)	2021/05/28	NC		%	20
			Total Cadmium (Cd)	2021/05/28	NC		%	20
			Total Calcium (Ca)	2021/05/28	5.1		%	20
			Total Chromium (Cr)	2021/05/28	NC		%	20
			Total Cobalt (Co)	2021/05/28	NC		%	20
			Total Copper (Cu)	2021/05/28	NC		%	20
			Total Iron (Fe)	2021/05/28	5.9		%	20
			Total Lead (Pb)	2021/05/28	NC		%	20
			Total Magnesium (Mg)	2021/05/28	4.8		%	20
			Total Manganese (Mn)	2021/05/28	4.9		%	20
			Total Molybdenum (Mo)	2021/05/28	NC		%	20
			Total Nickel (Ni)	2021/05/28	NC		%	20
			Total Phosphorus (P)	2021/05/28	NC		%	20
			Total Potassium (K)	2021/05/28	6.0		%	20
			Total Selenium (Se)	2021/05/28	NC		%	20
			Total Silver (Ag)	2021/05/28	NC		%	20
			Total Sodium (Na)	2021/05/28	5.2		%	20
			Total Strontium (Sr)	2021/05/28	2.3		%	20
			Total Thallium (Tl)	2021/05/28	NC		%	20
			Total Tin (Sn)	2021/05/28	NC		%	20
			Total Titanium (Ti)	2021/05/28	NC		%	20
			Total Uranium (U)	2021/05/28	NC		%	20
			Total Vanadium (V)	2021/05/28	NC		%	20
			Total Zinc (Zn)	2021/05/28	NC		%	20
7376015	YLG	Matrix Spike	Dissolved Organic Carbon (C)	2021/05/28		96	%	85 - 115
7376015	YLG	Spiked Blank	Dissolved Organic Carbon (C)	2021/05/28		104	%	80 - 120
7376015	YLG	Method Blank	Dissolved Organic Carbon (C)	2021/05/28	<0.50		mg/L	
7376015	YLG	RPD	Dissolved Organic Carbon (C)	2021/05/28	1.3		%	15
7376095	BAN	Matrix Spike	Total Aluminum (Al)	2021/05/28		99	%	80 - 120
			Total Antimony (Sb)	2021/05/28		99	%	80 - 120
			Total Arsenic (As)	2021/05/28		93	%	80 - 120
			Total Barium (Ba)	2021/05/28		94	%	80 - 120
			Total Beryllium (Be)	2021/05/28		96	%	80 - 120
			Total Bismuth (Bi)	2021/05/28		95	%	80 - 120
			Total Boron (B)	2021/05/28		94	%	80 - 120
			Total Cadmium (Cd)	2021/05/28		94	%	80 - 120
			Total Calcium (Ca)	2021/05/28		92	%	80 - 120
			Total Chromium (Cr)	2021/05/28		94	%	80 - 120
			Total Cobalt (Co)	2021/05/28		95	%	80 - 120
			Total Copper (Cu)	2021/05/28		93	%	80 - 120
			Total Iron (Fe)	2021/05/28		97	%	80 - 120
			Total Lead (Pb)	2021/05/28		95	%	80 - 120
			Total Magnesium (Mg)	2021/05/28		99	%	80 - 120
			Total Manganese (Mn)	2021/05/28		97	%	80 - 120
			Total Molybdenum (Mo)	2021/05/28		101	%	80 - 120
			Total Nickel (Ni)	2021/05/28		96	%	80 - 120
			Total Phosphorus (P)	2021/05/28		100	%	80 - 120



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7376095	BAN	Spiked Blank	Total Potassium (K)	2021/05/28		97	%	80 - 120
			Total Selenium (Se)	2021/05/28		95	%	80 - 120
			Total Silver (Ag)	2021/05/28		92	%	80 - 120
			Total Sodium (Na)	2021/05/28		93	%	80 - 120
			Total Strontium (Sr)	2021/05/28		97	%	80 - 120
			Total Thallium (Tl)	2021/05/28		97	%	80 - 120
			Total Tin (Sn)	2021/05/28		98	%	80 - 120
			Total Titanium (Ti)	2021/05/28		97	%	80 - 120
			Total Uranium (U)	2021/05/28		102	%	80 - 120
			Total Vanadium (V)	2021/05/28		94	%	80 - 120
			Total Zinc (Zn)	2021/05/28		94	%	80 - 120
			Total Aluminum (Al)	2021/05/28		101	%	80 - 120
			Total Antimony (Sb)	2021/05/28		99	%	80 - 120
			Total Arsenic (As)	2021/05/28		93	%	80 - 120
			Total Barium (Ba)	2021/05/28		96	%	80 - 120
			Total Beryllium (Be)	2021/05/28		99	%	80 - 120
			Total Bismuth (Bi)	2021/05/28		98	%	80 - 120
			Total Boron (B)	2021/05/28		97	%	80 - 120
			Total Cadmium (Cd)	2021/05/28		95	%	80 - 120
			Total Calcium (Ca)	2021/05/28		92	%	80 - 120
			Total Chromium (Cr)	2021/05/28		95	%	80 - 120
			Total Cobalt (Co)	2021/05/28		97	%	80 - 120
			Total Copper (Cu)	2021/05/28		96	%	80 - 120
			Total Iron (Fe)	2021/05/28		100	%	80 - 120
			Total Lead (Pb)	2021/05/28		97	%	80 - 120
			Total Magnesium (Mg)	2021/05/28		101	%	80 - 120
			Total Manganese (Mn)	2021/05/28		97	%	80 - 120
			Total Molybdenum (Mo)	2021/05/28		101	%	80 - 120
			Total Nickel (Ni)	2021/05/28		96	%	80 - 120
			Total Phosphorus (P)	2021/05/28		101	%	80 - 120
			Total Potassium (K)	2021/05/28		98	%	80 - 120
			Total Selenium (Se)	2021/05/28		96	%	80 - 120
			Total Silver (Ag)	2021/05/28		93	%	80 - 120
			Total Sodium (Na)	2021/05/28		97	%	80 - 120
			Total Strontium (Sr)	2021/05/28		97	%	80 - 120
			Total Thallium (Tl)	2021/05/28		97	%	80 - 120
			Total Tin (Sn)	2021/05/28		101	%	80 - 120
			Total Titanium (Ti)	2021/05/28		101	%	80 - 120
			Total Uranium (U)	2021/05/28		101	%	80 - 120
			Total Vanadium (V)	2021/05/28		96	%	80 - 120
			Total Zinc (Zn)	2021/05/28		95	%	80 - 120
7376095	BAN	Method Blank	Total Aluminum (Al)	2021/05/28	<0.0050		mg/L	
			Total Antimony (Sb)	2021/05/28	<0.0010		mg/L	
			Total Arsenic (As)	2021/05/28	<0.0010		mg/L	
			Total Barium (Ba)	2021/05/28	<0.0010		mg/L	
			Total Beryllium (Be)	2021/05/28	<0.0010		mg/L	
			Total Bismuth (Bi)	2021/05/28	<0.0020		mg/L	
			Total Boron (B)	2021/05/28	<0.050		mg/L	
			Total Cadmium (Cd)	2021/05/28	<0.000010		mg/L	
			Total Calcium (Ca)	2021/05/28	<0.10		mg/L	
			Total Chromium (Cr)	2021/05/28	<0.0010		mg/L	
			Total Cobalt (Co)	2021/05/28	<0.00040		mg/L	
			Total Copper (Cu)	2021/05/28	<0.00050		mg/L	
			Total Iron (Fe)	2021/05/28	<0.050		mg/L	
			Total Lead (Pb)	2021/05/28	<0.00050		mg/L	



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7376095	BAN	RPD		Total Magnesium (Mg)	2021/05/28	<0.10		mg/L	
				Total Manganese (Mn)	2021/05/28	<0.0020		mg/L	
				Total Molybdenum (Mo)	2021/05/28	<0.0020		mg/L	
				Total Nickel (Ni)	2021/05/28	<0.0020		mg/L	
				Total Phosphorus (P)	2021/05/28	<0.10		mg/L	
				Total Potassium (K)	2021/05/28	<0.10		mg/L	
				Total Selenium (Se)	2021/05/28	<0.00050		mg/L	
				Total Silver (Ag)	2021/05/28	<0.00010		mg/L	
				Total Sodium (Na)	2021/05/28	0.11, RDL=0.10 (1)		mg/L	
				Total Strontium (Sr)	2021/05/28	<0.0020		mg/L	
				Total Thallium (Tl)	2021/05/28	<0.00010		mg/L	
				Total Tin (Sn)	2021/05/28	<0.0020		mg/L	
				Total Titanium (Ti)	2021/05/28	<0.0020		mg/L	
				Total Uranium (U)	2021/05/28	<0.00010		mg/L	
				Total Vanadium (V)	2021/05/28	<0.0020		mg/L	
				Total Zinc (Zn)	2021/05/28	<0.0050		mg/L	
				Total Aluminum (Al)	2021/05/28	0.26		%	20
				Total Antimony (Sb)	2021/05/28	NC		%	20
				Total Arsenic (As)	2021/05/28	NC		%	20
				Total Barium (Ba)	2021/05/28	0.37		%	20
				Total Boron (B)	2021/05/28	NC		%	20
				Total Cadmium (Cd)	2021/05/28	NC		%	20
				Total Calcium (Ca)	2021/05/28	0.68		%	20
				Total Chromium (Cr)	2021/05/28	NC		%	20
				Total Copper (Cu)	2021/05/28	0.48		%	20
				Total Iron (Fe)	2021/05/28	2.8		%	20
				Total Lead (Pb)	2021/05/28	NC		%	20
				Total Magnesium (Mg)	2021/05/28	0.26		%	20
				Total Manganese (Mn)	2021/05/28	2.3		%	20
				Total Nickel (Ni)	2021/05/28	NC		%	20
				Total Phosphorus (P)	2021/05/28	NC		%	20
				Total Selenium (Se)	2021/05/28	NC		%	20
				Total Sodium (Na)	2021/05/28	0.49		%	20
				Total Strontium (Sr)	2021/05/28	0.70		%	20
				Total Uranium (U)	2021/05/28	NC		%	20
				Total Zinc (Zn)	2021/05/28	0.37		%	20
7376120	BAN	Matrix Spike		Dissolved Aluminum (Al)	2021/05/28		101	%	80 - 120
				Dissolved Antimony (Sb)	2021/05/28		100	%	80 - 120
				Dissolved Arsenic (As)	2021/05/28		98	%	80 - 120
				Dissolved Barium (Ba)	2021/05/28		NC	%	80 - 120
				Dissolved Beryllium (Be)	2021/05/28		102	%	80 - 120
				Dissolved Bismuth (Bi)	2021/05/28		96	%	80 - 120
				Dissolved Boron (B)	2021/05/28		99	%	80 - 120
				Dissolved Cadmium (Cd)	2021/05/28		98	%	80 - 120
				Dissolved Calcium (Ca)	2021/05/28		NC	%	80 - 120
				Dissolved Chromium (Cr)	2021/05/28		97	%	80 - 120
				Dissolved Cobalt (Co)	2021/05/28		98	%	80 - 120
				Dissolved Copper (Cu)	2021/05/28		95	%	80 - 120
				Dissolved Iron (Fe)	2021/05/28		101	%	80 - 120
				Dissolved Lead (Pb)	2021/05/28		102	%	80 - 120
				Dissolved Magnesium (Mg)	2021/05/28		NC	%	80 - 120
				Dissolved Manganese (Mn)	2021/05/28		NC	%	80 - 120
				Dissolved Molybdenum (Mo)	2021/05/28		103	%	80 - 120
				Dissolved Nickel (Ni)	2021/05/28		97	%	80 - 120



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7376120	BAN	Spiked Blank		Dissolved Phosphorus (P)	2021/05/28		102	%	80 - 120
				Dissolved Potassium (K)	2021/05/28		106	%	80 - 120
				Dissolved Selenium (Se)	2021/05/28		95	%	80 - 120
				Dissolved Silver (Ag)	2021/05/28		89	%	80 - 120
				Dissolved Sodium (Na)	2021/05/28		NC	%	80 - 120
				Dissolved Strontium (Sr)	2021/05/28		NC	%	80 - 120
				Dissolved Thallium (Tl)	2021/05/28		98	%	80 - 120
				Dissolved Tin (Sn)	2021/05/28		103	%	80 - 120
				Dissolved Titanium (Ti)	2021/05/28		103	%	80 - 120
				Dissolved Uranium (U)	2021/05/28		108	%	80 - 120
				Dissolved Vanadium (V)	2021/05/28		100	%	80 - 120
				Dissolved Zinc (Zn)	2021/05/28		98	%	80 - 120
				Dissolved Aluminum (Al)	2021/05/28		100	%	80 - 120
				Dissolved Antimony (Sb)	2021/05/28		96	%	80 - 120
				Dissolved Arsenic (As)	2021/05/28		95	%	80 - 120
				Dissolved Barium (Ba)	2021/05/28		98	%	80 - 120
				Dissolved Beryllium (Be)	2021/05/28		98	%	80 - 120
				Dissolved Bismuth (Bi)	2021/05/28		99	%	80 - 120
				Dissolved Boron (B)	2021/05/28		95	%	80 - 120
				Dissolved Cadmium (Cd)	2021/05/28		95	%	80 - 120
				Dissolved Calcium (Ca)	2021/05/28		95	%	80 - 120
				Dissolved Chromium (Cr)	2021/05/28		95	%	80 - 120
				Dissolved Cobalt (Co)	2021/05/28		97	%	80 - 120
				Dissolved Copper (Cu)	2021/05/28		95	%	80 - 120
				Dissolved Iron (Fe)	2021/05/28		103	%	80 - 120
				Dissolved Lead (Pb)	2021/05/28		101	%	80 - 120
				Dissolved Magnesium (Mg)	2021/05/28		105	%	80 - 120
				Dissolved Manganese (Mn)	2021/05/28		99	%	80 - 120
				Dissolved Molybdenum (Mo)	2021/05/28		101	%	80 - 120
				Dissolved Nickel (Ni)	2021/05/28		99	%	80 - 120
				Dissolved Phosphorus (P)	2021/05/28		101	%	80 - 120
				Dissolved Potassium (K)	2021/05/28		99	%	80 - 120
				Dissolved Selenium (Se)	2021/05/28		92	%	80 - 120
				Dissolved Silver (Ag)	2021/05/28		94	%	80 - 120
				Dissolved Sodium (Na)	2021/05/28		103	%	80 - 120
				Dissolved Strontium (Sr)	2021/05/28		100	%	80 - 120
				Dissolved Thallium (Tl)	2021/05/28		98	%	80 - 120
				Dissolved Tin (Sn)	2021/05/28		99	%	80 - 120
				Dissolved Titanium (Ti)	2021/05/28		102	%	80 - 120
				Dissolved Uranium (U)	2021/05/28		105	%	80 - 120
				Dissolved Vanadium (V)	2021/05/28		98	%	80 - 120
				Dissolved Zinc (Zn)	2021/05/28		100	%	80 - 120
7376120	BAN	Method Blank		Dissolved Aluminum (Al)	2021/05/28	<5.0		ug/L	
				Dissolved Antimony (Sb)	2021/05/28	<1.0		ug/L	
				Dissolved Arsenic (As)	2021/05/28	<1.0		ug/L	
				Dissolved Barium (Ba)	2021/05/28	<1.0		ug/L	
				Dissolved Beryllium (Be)	2021/05/28	<1.0		ug/L	
				Dissolved Bismuth (Bi)	2021/05/28	<2.0		ug/L	
				Dissolved Boron (B)	2021/05/28	<50		ug/L	
				Dissolved Cadmium (Cd)	2021/05/28	<0.010		ug/L	
				Dissolved Calcium (Ca)	2021/05/28	<100		ug/L	
				Dissolved Chromium (Cr)	2021/05/28	<1.0		ug/L	
				Dissolved Cobalt (Co)	2021/05/28	<0.40		ug/L	
				Dissolved Copper (Cu)	2021/05/28	<0.50		ug/L	
				Dissolved Iron (Fe)	2021/05/28	<50		ug/L	



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7376120	BAN	RPD	Dissolved Lead (Pb)	2021/05/28	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2021/05/28	<100		ug/L	
			Dissolved Manganese (Mn)	2021/05/28	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2021/05/28	<2.0		ug/L	
			Dissolved Nickel (Ni)	2021/05/28	<2.0		ug/L	
			Dissolved Phosphorus (P)	2021/05/28	<100		ug/L	
			Dissolved Potassium (K)	2021/05/28	<100		ug/L	
			Dissolved Selenium (Se)	2021/05/28	<0.50		ug/L	
			Dissolved Silver (Ag)	2021/05/28	<0.10		ug/L	
			Dissolved Sodium (Na)	2021/05/28	<100		ug/L	
			Dissolved Strontium (Sr)	2021/05/28	<2.0		ug/L	
			Dissolved Thallium (Tl)	2021/05/28	<0.10		ug/L	
			Dissolved Tin (Sn)	2021/05/28	<2.0		ug/L	
			Dissolved Titanium (Ti)	2021/05/28	<2.0		ug/L	
			Dissolved Uranium (U)	2021/05/28	<0.10		ug/L	
			Dissolved Vanadium (V)	2021/05/28	<2.0		ug/L	
			Dissolved Zinc (Zn)	2021/05/28	<5.0		ug/L	
			Dissolved Aluminum (Al)	2021/05/28	1.6		%	20
			Dissolved Antimony (Sb)	2021/05/28	NC		%	20
			Dissolved Arsenic (As)	2021/05/28	3.4		%	20
			Dissolved Barium (Ba)	2021/05/28	0.45		%	20
			Dissolved Beryllium (Be)	2021/05/28	NC		%	20
			Dissolved Bismuth (Bi)	2021/05/28	NC		%	20
			Dissolved Boron (B)	2021/05/28	1.2		%	20
			Dissolved Cadmium (Cd)	2021/05/28	0.35		%	20
			Dissolved Calcium (Ca)	2021/05/28	1.7		%	20
			Dissolved Chromium (Cr)	2021/05/28	NC		%	20
			Dissolved Cobalt (Co)	2021/05/28	NC		%	20
			Dissolved Copper (Cu)	2021/05/28	2.0		%	20
			Dissolved Iron (Fe)	2021/05/28	NC		%	20
			Dissolved Lead (Pb)	2021/05/28	NC		%	20
			Dissolved Magnesium (Mg)	2021/05/28	1.3		%	20
			Dissolved Manganese (Mn)	2021/05/28	0.65		%	20
			Dissolved Molybdenum (Mo)	2021/05/28	3.4		%	20
			Dissolved Nickel (Ni)	2021/05/28	NC		%	20
			Dissolved Phosphorus (P)	2021/05/28	NC		%	20
			Dissolved Potassium (K)	2021/05/28	0.27		%	20
			Dissolved Selenium (Se)	2021/05/28	NC		%	20
			Dissolved Silver (Ag)	2021/05/28	NC		%	20
			Dissolved Sodium (Na)	2021/05/28	0.76		%	20
			Dissolved Strontium (Sr)	2021/05/28	0.38		%	20
			Dissolved Thallium (Tl)	2021/05/28	NC		%	20
			Dissolved Tin (Sn)	2021/05/28	NC		%	20
			Dissolved Titanium (Ti)	2021/05/28	NC		%	20
			Dissolved Uranium (U)	2021/05/28	2.8		%	20
			Dissolved Vanadium (V)	2021/05/28	NC		%	20
			Dissolved Zinc (Zn)	2021/05/28	8.1		%	20
7376165	SHW	QC Standard	Turbidity	2021/05/28		105	%	80 - 120
7376165	SHW	Spiked Blank	Turbidity	2021/05/28		103	%	80 - 120
7376165	SHW	Method Blank	Turbidity	2021/05/28	<0.10		NTU	
7376165	SHW	RPD	Turbidity	2021/05/28	9.8		%	20
7376239	YLG	Matrix Spike	Total Organic Carbon (C)	2021/05/28		95	%	85 - 115
7376239	YLG	Spiked Blank	Total Organic Carbon (C)	2021/05/28		97	%	80 - 120
7376239	YLG	Method Blank	Total Organic Carbon (C)	2021/05/28	<0.50		mg/L	
7376239	YLG	RPD	Total Organic Carbon (C)	2021/05/28	3.1		%	15



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7376245	YLG	Matrix Spike	Total Organic Carbon (C)	2021/05/28		96	%	85 - 115
7376245	YLG	Spiked Blank	Total Organic Carbon (C)	2021/05/28		99	%	80 - 120
7376245	YLG	Method Blank	Total Organic Carbon (C)	2021/05/28	<0.50		mg/L	
7376245	YLG	RPD	Total Organic Carbon (C)	2021/05/28	NC		%	15
7376363	NHU	Matrix Spike	Total Mercury (Hg)	2021/05/31		102	%	80 - 120
7376363	NHU	Spiked Blank	Total Mercury (Hg)	2021/05/31		101	%	80 - 120
7376363	NHU	Method Blank	Total Mercury (Hg)	2021/05/31	<0.013		ug/L	
7376363	NHU	RPD	Total Mercury (Hg)	2021/05/31	NC		%	20
7376366	EMT	Matrix Spike	Total Alkalinity (Total as CaCO3)	2021/06/01		NC	%	80 - 120
7376366	EMT	Spiked Blank	Total Alkalinity (Total as CaCO3)	2021/06/01		104	%	80 - 120
7376366	EMT	Method Blank	Total Alkalinity (Total as CaCO3)	2021/06/01	<5.0		mg/L	
7376366	EMT	RPD	Total Alkalinity (Total as CaCO3)	2021/06/01	4.5		%	20
7376368	NHU	Matrix Spike [PQD271-09]	Dissolved Mercury (Hg)	2021/05/31		103	%	80 - 120
7376368	NHU	Spiked Blank	Dissolved Mercury (Hg)	2021/05/31		104	%	80 - 120
7376368	NHU	Method Blank	Dissolved Mercury (Hg)	2021/05/31	<0.013		ug/L	
7376368	NHU	RPD	Dissolved Mercury (Hg)	2021/05/31	NC		%	20
7376372	EMT	Matrix Spike	Dissolved Chloride (Cl-)	2021/05/31		93	%	80 - 120
7376372	EMT	Spiked Blank	Dissolved Chloride (Cl-)	2021/05/31		100	%	80 - 120
7376372	EMT	Method Blank	Dissolved Chloride (Cl-)	2021/05/31	<1.0		mg/L	
7376372	EMT	RPD	Dissolved Chloride (Cl-)	2021/05/31	4.6		%	20
7376373	EMT	Matrix Spike	Dissolved Sulphate (SO4)	2021/05/31		107	%	80 - 120
7376373	EMT	Spiked Blank	Dissolved Sulphate (SO4)	2021/05/31		109	%	80 - 120
7376373	EMT	Method Blank	Dissolved Sulphate (SO4)	2021/05/31	<2.0		mg/L	
7376373	EMT	RPD	Dissolved Sulphate (SO4)	2021/05/31	2.5		%	20
7376374	EMT	Matrix Spike	Reactive Silica (SiO2)	2021/05/31		89	%	80 - 120
7376374	EMT	Spiked Blank	Reactive Silica (SiO2)	2021/05/31		95	%	80 - 120
7376374	EMT	Method Blank	Reactive Silica (SiO2)	2021/05/31	<0.50		mg/L	
7376374	EMT	RPD	Reactive Silica (SiO2)	2021/05/31	0.98		%	20
7376375	EMT	Spiked Blank	Colour	2021/05/31		104	%	80 - 120
7376375	EMT	Method Blank	Colour	2021/05/31	<5.0		TCU	
7376375	EMT	RPD	Colour	2021/05/31	NC		%	20
7376378	EMT	Matrix Spike	Orthophosphate (P)	2021/05/31		99	%	80 - 120
7376378	EMT	Spiked Blank	Orthophosphate (P)	2021/05/31		108	%	80 - 120
7376378	EMT	Method Blank	Orthophosphate (P)	2021/05/31	<0.010		mg/L	
7376378	EMT	RPD	Orthophosphate (P)	2021/05/31	NC		%	20
7376379	EMT	Matrix Spike	Nitrate + Nitrite (N)	2021/05/31		83	%	80 - 120
7376379	EMT	Spiked Blank	Nitrate + Nitrite (N)	2021/05/31		83	%	80 - 120
7376379	EMT	Method Blank	Nitrate + Nitrite (N)	2021/05/31	<0.050		mg/L	
7376379	EMT	RPD	Nitrate + Nitrite (N)	2021/05/31	NC		%	20
7376380	EMT	Matrix Spike	Nitrite (N)	2021/05/31		95	%	80 - 120
7376380	EMT	Spiked Blank	Nitrite (N)	2021/05/31		102	%	80 - 120
7376380	EMT	Method Blank	Nitrite (N)	2021/05/31	<0.010		mg/L	
7376380	EMT	RPD	Nitrite (N)	2021/05/31	NC		%	20
7379413	SHW	Spiked Blank	Conductivity	2021/05/31		100	%	80 - 120
7379413	SHW	Method Blank	Conductivity	2021/05/31	<1.0		uS/cm	
7379413	SHW	RPD	Conductivity	2021/05/31	0		%	10
7379414	SHW	Spiked Blank	pH	2021/05/31		100	%	97 - 103
7379414	SHW	RPD	pH	2021/05/31	0.89		%	N/A
7379415	SHW	Spiked Blank	Conductivity	2021/05/31		99	%	80 - 120
7379415	SHW	Method Blank	Conductivity	2021/05/31	<1.0		uS/cm	
7379415	SHW	RPD	Conductivity	2021/05/31	0.93		%	10
7379449	EMT	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2021/05/31		87	%	80 - 120
7379449	EMT	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2021/05/31		95	%	80 - 120
7379449	EMT	Method Blank	Nitrogen (Ammonia Nitrogen)	2021/05/31	<0.050		mg/L	



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7379449	EMT	RPD	Nitrogen (Ammonia Nitrogen)	2021/05/31	NC		%	20
7379452	EMT	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2021/05/31		95	%	80 - 120
7379452	EMT	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2021/05/31		96	%	80 - 120
7379452	EMT	Method Blank	Nitrogen (Ammonia Nitrogen)	2021/05/31	<0.050		mg/L	
7379452	EMT	RPD	Nitrogen (Ammonia Nitrogen)	2021/05/31	NC		%	20
7379616	YLG	Matrix Spike	Total Organic Carbon (C)	2021/05/31		102	%	85 - 115
7379616	YLG	Spiked Blank	Total Organic Carbon (C)	2021/05/31		97	%	80 - 120
7379616	YLG	Method Blank	Total Organic Carbon (C)	2021/05/31	<0.50		mg/L	
7379616	YLG	RPD	Total Organic Carbon (C)	2021/05/31	4.5		%	15

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference $\leq 2 \times \text{RDL}$).

(1) Low level lab contamination.



BV Labs Job #: C1D8409
Report Date: 2021/06/10

Anaconda Mining Inc
Your P.O. #: 0202

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "Eric Dearman".

Eric Dearman, Scientific Specialist

A handwritten signature in black ink, appearing to read "Mike MacGillivray".

Mike MacGillivray, Scientific Specialist (Inorganics)

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



DALHOUSIE
UNIVERSITY

Inspiring Minds

Department of Oceanography
1355 Oxford St
Halifax, NS
B3H 4R2

Determination of chlorophyll a by fluorescence

Client: Bureau Veritas Laboratories, 200 Bluewater Road, Bedford, NS, B4B 1G9

Attention: Melissa DiPinto

Received: 2021-05-26

Project #: C1D8409

Completed: 2021-05-27

Hugh MacIntyre

Hugh MacIntyre, Ph.D.

Chl *a* (chlorophyll *a* ; $\mu\text{g L}^{-1}$) determined by the acidification method (Holm-Hansen et al., 1965). Estimates made with the non-acidification method (Welschmeyer, 1994) are shown for comparison.

The non-acidification method is considered more reliable than the acidification method in correcting for bias due to the contributions of chlorophyll *b* and chlorophyll degradation products.

Holm-Hansen O, Lorenzen CJ, Holmes RW, Strickland JDH (1965) Fluorometric determination of chlorophyll.

J Conseil 30:3-15

Welschmeyer NA (1994) Fluorometric analysis of chlorophyll *a* in the presence of chlorophyll *b* and phaeopigments.

Limnol Oceanogr 39:1985-1992

Contractor ID	Client ID	Chl <i>a</i> (acidification)	Chl <i>a</i> (non-acidification)
PQD266-07R	SW-11-21	38.7	51.2
PQD267-07R	SW-12-21	0.801	0.949
PQD268-07R	SW-13-21	0.951	1.28
PQD269-07R	SW-14-21	0.631	0.729
PQD270-07R	SW-15-21	0.813	0.855
PQD271-07R	SW-16-21	1.32	1.56
PQD272-07R	SW-17-21	1.85	2.51
PQD273-07R	SW-18-21	0.445	0.809
PQD274-07R	SW-19-21	4.91	19.2

Contractor ID	Client ID	Chl a (acidification)	Chl a (non-acidification)
PQD275-07R	SW-20-21	0.512	0.7
PQD279-07R	SWDUPA	0.817	0.891

Methyl Mercury Results - Revised Report June 10, 2021

Flett Research Ltd.

440 DeSalaberry Ave. Winnipeg, MB R2L 0Y7
Fax/Phone (204) 667-2505
E-mail: flett@flettresearch.ca Webpage: http://www.flettresearch.ca

MTWATR060321J51rev01
Page 1 of 1

CLIENT: Bureau Veritas - Bedford: C1D8409

200 Bluewater Road, Suite 105
Bedford, NS B4B 1G9

Date Received: May 27, 2021

Sampling Date: May 20, 2021 to May 21, 2021

Date Issued: June 10, 2021 14:05

Matrix: Water

Transaction ID: 894

PO/Contract No.:

Date Analysed: June 3, 2021

Analyst(s): Jason S.

Analytical Method: M10211: Methyl Mercury in Water by Distillation, Aqueous Ethylation, Purge and Trap, and CVAFS - Tekran 2700 Mercury Analyser (Version 2)

Comments: This revised report replaces Flett file MTWATR060321J51. The sample ID's have been updated to reflect a change in the clients formatting.

Samples SW-15 and SW/DUPA had particulates present. The remaining samples were yellowish in colour with particulates present. Sample SW-19 in particular had a large amount of what appeared to be brown organic material present.

Detection Limit: The method detection limit (MDL) for this method is 0.0035 ng/L. The MDL is the minimum concentration that can be reported with 99% confidence that the measured concentration exceeds zero and is based on the distillation of 45mL of raw sample and analysis of either 20 or 30mL of a 40mL distillate.

For reporting purpose samples are flagged when concentration is below the methods EPA defined minimum level (ML= 0.0135 ng/L).
As concentration rises above the MDL confidence that the analyte is present approaches 100% at and above the ML.

Estimated Uncertainty: Overall uncertainty decreases as analyte concentration increases. When methyl mercury concentrations exceed 0.03ng/L, the estimated uncertainty of the method is ±15%. At a concentration of 0.01ng/L, uncertainty is ± 23%. Method uncertainty for concentrations at MDL is ±75% (0.0035 ± 0.0026 ng/L). All method uncertainties are expressed at a 95% confidence level of (k=2).

Results authorized by Dr. Robert J. Flett, Chief Scientist

QUALITY DATA	Blanks			Pg of CH3Hg in the Ethylation Blank		Mean Gross Peak Area	CH3Hg in the Ethylation Blank (ng/L) assumes volume is 30mL			
			Ethylation blank (H2O+Reagents)		0.15	11.76	0.005			
			Mean Eth. Blank (last 30 runs)		0.13					
				Net Pg CH3Hg in the Method Blank (Eth. Blank subtracted)	Gross Peak Area	Net CH3Hg in the Method Blank (ng/L) [Eth. Blank subtracted]				
			Method Blank 1		0.22	28.95	0.010			
			Method Blank 2		0.18	25.76	0.008			
			Method Blank 3		0.20	27.64	0.009			
			Mean Method Blank				0.009			
	Mean Calibration Factor (area units / pg)		79.38 ± 2.6 %RSD							
	Spike Recovery Matrix Spike (MS) and Matrix Spike Duplicate (MSD)		Sample ID (Details)		Sample Type	Gross Peak Area	Volume of Water Sample Distilled (mL)	% CH3Hg Recovery Used for Calculations	Net CH3Hg as Hg (ng/L)	CH3Hg Recovery (%)
PQD266-06R (SW-11-21)			MS1	4454.31	48.14	100%	2.48	83.1		
PQD266-06R (SW-11-21)			MS1D	4687.45	47.44	100%	2.48	82.4		
Mean of Spike Recoveries								82.8		
QC Samples Ongoing Precision & Recovery (OPR)			MeOPR ID1701 (1000ng/L)		(beginning of run)	1209.62	0.050	100%	959	95.9
		MeOPR ID1701 (1000ng/L)		(end of run)	1284.72	0.050	100%	978	97.8	
		Mean of MeOPR						969	96.9	
Alternate Source Standard (A.S.S.)		A.S.S.-Alfa ID1301 (1000 ng/L)			2546.16		100%	1064	106.4	
LAB ID	Sampling Details	Sample ID	Date Sampled	Time Sampled	Sample Type	Gross Peak Area	Volume of Water Sample Distilled (mL)	% CH3Hg Recovery Used for Calculations	Net CH3Hg in the Sample as Hg (ng/L) [Ethylation & Method Blank subtracted] (recovery corrected)	
104488	PQD266-06R	SW-11-21	May 21, 2021	08:35		2824.14	49.22	82.8%	1.95	
104489	PQD267-06R	SW-12-21	May 21, 2021	11:10		229.19	48.65	82.8%	0.137	
104490	PQD268-06R	SW-13-21	May 20, 2021	14:55		846.85	47.88	82.8%	0.542	
104491	PQD269-06R	SW-14-21	May 20, 2021	13:50		364.65	48.64	82.8%	0.227	
104492	PQD270-06R	SW-15-21	May 20, 2021	16:35		136.45	48.53	82.8%	0.071	
104493	PQD271-06R	SW-16-21	May 20, 2021	12:30		350.23	47.70	82.8%	0.213	
104494	PQD272-06R	SW-17-21	May 20, 2021	13:40	DupA1	535.85	47.32	82.8%	0.349	
104494	PQD272-06R	SW-17-21	May 20, 2021	13:40	DupA2	576.83	49.00	82.8%	0.344	
104495	PQD273-06R	SW-18-21	May 21, 2021	09:50		1312.97	47.67	82.8%	0.871	
104496	PQD274-06R	SW-19-21	May 21, 2021	10:30	Repeat Aliquot A1	1084.85	48.07	82.8%	15.0	
104496	PQD274-06R	SW-19-21	May 21, 2021	10:30	Repeat Aliquot A2	1049.94	48.07	82.8%	14.5	
104497	PQD275-06R	SW-20-21	May 20, 2021	10:35		744.93	47.28	82.8%	0.481	
104498	PQD279-06R	SW/DUPA	May 20, 2021			131.69	47.14	82.8%	0.073	

Q:\Clients A-L\Bureau Veritas - Bedford\2021\894\Methyl Mercury\MTWATR060321J51rev1.xls

* : See "Comments" section above for discussion.

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Note: Results relate only to the items tested.

Dup : Duplicate - two subsamples of the same sample carried through the analytical procedure in an identical manner.

Repeat Aliquot : two or more representative portions of a single sample distillate analysed in an identical manner.



60/EC 17025:2017 Accredited with the Canadian Association of Laboratory Accreditation

M10211-1 Version 021021



Your P.O. #: 2021- 0267
 Your Project #: GOLDBORO
 Your C.O.C. #: 830404-02-01, 830404-01-01

Attention: Derek Bullock

Anaconda Mining Inc
 Goldboro Gold Mine
 570 Goldbrook Road
 Goldboro, NS
 Canada BOH 1L0

Report Date: 2021/07/08
 Report #: R6710298
 Version: 1 - Partial

CERTIFICATE OF ANALYSIS – PARTIAL RESULTS

BV LABS JOB #: C1H1659

Received: 2021/06/22, 15:42

Sample Matrix: Water
 # Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Carbonate, Bicarbonate and Hydroxide	1	N/A	2021/06/28	N/A	SM 23 4500-CO2 D
Carbonate, Bicarbonate and Hydroxide	9	N/A	2021/06/29	N/A	SM 23 4500-CO2 D
Alkalinity	7	N/A	2021/06/28	ATL SOP 00013	EPA 310.2 R1974 m
Alkalinity	3	N/A	2021/06/29	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	9	N/A	2021/06/28	ATL SOP 00014	SM 23 4500-Cl- E m
Chloride	1	N/A	2021/06/29	ATL SOP 00014	SM 23 4500-Cl- E m
Colour	10	N/A	2021/06/29	ATL SOP 00020	SM 23 2120C m
Organic carbon - Diss (DOC) (2)	10	N/A	2021/06/26	ATL SOP 00203	SM 23 5310B m
Conductance - water	1	N/A	2021/06/28	ATL SOP 00004	SM 23 2510B m
Conductance - water	9	N/A	2021/06/29	ATL SOP 00004	SM 23 2510B m
Hardness (calculated as CaCO3)	3	N/A	2021/06/28	ATL SOP 00048	Auto Calc
Hardness (calculated as CaCO3)	7	N/A	2021/06/29	ATL SOP 00048	Auto Calc
Mercury - Dissolved (CVAA,LL)	10	2021/06/29	2021/06/29	ATL SOP 00026	EPA 245.1 R3 m
Mercury - Total (CVAA,LL)	10	2021/06/29	2021/06/29	ATL SOP 00026	EPA 245.1 R3 m
Metals Water Diss. MS (as rec'd)	3	N/A	2021/06/25	ATL SOP 00058	EPA 6020B R2 m
Metals Water Diss. MS (as rec'd)	7	N/A	2021/06/28	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	2	2021/06/25	2021/06/25	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	8	2021/06/28	2021/06/29	ATL SOP 00058	EPA 6020B R2 m
Ion Balance (% Difference)	9	N/A	2021/06/29	N/A	Auto Calc.
Ion Balance (% Difference)	1	N/A	2021/06/30	N/A	Auto Calc.
Anion and Cation Sum	1	N/A	2021/06/28	N/A	Auto Calc.
Anion and Cation Sum	9	N/A	2021/06/29	N/A	Auto Calc.
Nitrogen Ammonia - water	3	N/A	2021/06/25	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen Ammonia - water	6	N/A	2021/06/28	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen Ammonia - water	1	N/A	2021/06/29	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	9	N/A	2021/06/28	ATL SOP 00016	USGS I-2547-11m
Nitrogen - Nitrate + Nitrite	1	N/A	2021/06/29	ATL SOP 00016	USGS I-2547-11m
Nitrogen - Nitrite	9	N/A	2021/06/28	ATL SOP 00017	SM 23 4500-NO2- B m
Nitrogen - Nitrite	1	N/A	2021/06/29	ATL SOP 00017	SM 23 4500-NO2- B m
Nitrogen - Nitrate (as N)	9	N/A	2021/06/29	ATL SOP 00018	ASTM D3867-16
Nitrogen - Nitrate (as N)	1	N/A	2021/06/30	ATL SOP 00018	ASTM D3867-16



Your P.O. #: 2021- 0267
 Your Project #: GOLDBORO
 Your C.O.C. #: 830404-02-01, 830404-01-01

Attention: Derek Bullock

Anaconda Mining Inc
 Goldboro Gold Mine
 570 Goldbrook Road
 Goldboro, NS
 Canada BOH 1L0

Report Date: 2021/07/08
 Report #: R6710298
 Version: 1 - Partial

CERTIFICATE OF ANALYSIS – PARTIAL RESULTS

BV LABS JOB #: C1H1659

Received: 2021/06/22, 15:42

Sample Matrix: Water
 # Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
pH (3)	1	N/A	2021/06/28	ATL SOP 00003	SM 23 4500-H+ B m
pH (3)	9	N/A	2021/06/29	ATL SOP 00003	SM 23 4500-H+ B m
Phosphorus - ortho	9	N/A	2021/06/28	ATL SOP 00021	SM 23 4500-P E m
Phosphorus - ortho	1	N/A	2021/06/29	ATL SOP 00021	SM 23 4500-P E m
Sat. pH and Langelier Index (@ 20C)	9	N/A	2021/06/29	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 20C)	1	N/A	2021/06/30	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	9	N/A	2021/06/29	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	1	N/A	2021/06/30	ATL SOP 00049	Auto Calc.
Reactive Silica	9	N/A	2021/06/28	ATL SOP 00022	EPA 366.0 m
Reactive Silica	1	N/A	2021/06/29	ATL SOP 00022	EPA 366.0 m
Sulphate	10	N/A	2021/06/29	ATL SOP 00023	ASTM D516-16 m
Chlorophyll A (Sub from Bedford) (1)	10	2021/06/28	2021/06/29		
Total Dissolved Solids (TDS calc)	9	N/A	2021/06/29	N/A	Auto Calc.
Total Dissolved Solids (TDS calc)	1	N/A	2021/06/30	N/A	Auto Calc.
Organic carbon - Total (TOC) (2)	1	N/A	2021/06/29	ATL SOP 00203	SM 23 5310B m
Organic carbon - Total (TOC) (2)	9	N/A	2021/06/30	ATL SOP 00203	SM 23 5310B m
Turbidity	10	N/A	2021/06/24	ATL SOP 00011	EPA 180.1 R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

BV Labs - Partial/Rush Results



Your P.O. #: 2021- 0267
 Your Project #: GOLDBORO
 Your C.O.C. #: 830404-02-01, 830404-01-01

Attention: Derek Bullock

Anaconda Mining Inc
 Goldboro Gold Mine
 570 Goldbrook Road
 Goldboro, NS
 Canada BOH 1L0

Report Date: 2021/07/08
 Report #: R6710298
 Version: 1 - Partial

CERTIFICATE OF ANALYSIS – PARTIAL RESULTS

BV LABS JOB #: C1H1659

Received: 2021/06/22, 15:42

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Dalhousie Dept of Oceanography

(2) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

(3) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

Encryption Key

Tyler Travers
 Project Manager Assistant
 08 Jul 2021 16:10:07

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Melissa DiPinto, Project Manager

Email: Melissa.DIPINTO@bureauveritas.com

Phone# (902)420-0203 Ext:233

=====

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BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

BV Labs - Partial/Rush Results



BV Labs Job #: C1H1659
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
Sampler Initials: PB

RESULTS OF ANALYSES OF WATER

BV Labs ID		PXC276		PXC311		PXC312		
Sampling Date		2021/06/22 09:21		2021/06/22 12:40		2021/06/21 16:40		
COC Number		830404-01-01		830404-01-01		830404-01-01		
	UNITS	SW-11-21	QC Batch	SW-12-21	QC Batch	SW-13-21	RDL	QC Batch
Calculated Parameters								
Anion Sum	me/L	0.370	7422684	0.130	7422684	0.180	N/A	7422684
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	6.7	7422674	<1.0	7422674	<1.0	1.0	7422674
Calculated TDS	mg/L	23	7422700	11	7422700	18	1.0	7422700
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	7422674	<1.0	7422674	<1.0	1.0	7422674
Cation Sum	me/L	0.410	7422684	0.210	7422684	0.290	N/A	7422684
Hardness (CaCO ₃)	mg/L	7.4	7422679	2.4	7422679	3.4	1.0	7422679
Ion Balance (% Difference)	%	5.13	7422682	23.5	7422682	23.4	N/A	7422682
Langelier Index (@ 20C)	N/A	-3.95	7422695	NC	7422695	NC		7422695
Langelier Index (@ 4C)	N/A	-4.21	7422696	NC	7422696	NC		7422696
Nitrate (N)	mg/L	<0.050	7422689	<0.050	7422689	<0.050	0.050	7422689
Saturation pH (@ 20C)	N/A	10.2	7422695	NC	7422695	NC		7422695
Saturation pH (@ 4C)	N/A	10.4	7422696	NC	7422696	NC		7422696
Inorganics								
Total Alkalinity (Total as CaCO ₃)	mg/L	6.7	7429222	<5.0	7429222	<5.0	5.0	7429222
Dissolved Chloride (Cl ⁻)	mg/L	6.6	7429228	4.5	7429228	6.4	1.0	7429228
Colour	TCU	160	7429231	120	7429231	210	25	7429231
Nitrate + Nitrite (N)	mg/L	<0.050	7429234	<0.050	7429234	<0.050	0.050	7429234
Nitrite (N)	mg/L	<0.010	7429237	<0.010	7429237	<0.010	0.010	7429237
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	7426809	<0.050	7426809	<0.050	0.050	7426809
Dissolved Organic Carbon (C)	mg/L	12	7429002	8.2	7429002	18	0.50	7429002
Total Organic Carbon (C)	mg/L	15	7434950	9.4	7434943	19	0.50	7434940
Orthophosphate (P)	mg/L	0.063	7429232	<0.010	7429232	<0.010	0.010	7429232
pH	pH	6.24	7432625	5.18	7434898	4.82		7434898
Reactive Silica (SiO ₂)	mg/L	1.3	7429230	1.6	7429230	5.8	0.50	7429230
Dissolved Sulphate (SO ₄)	mg/L	2.3	7429229	<2.0	7429229	<2.0	2.0	7429229
Turbidity	NTU	1.8	7426554	2.1	7426553	1.5	0.10	7426549
Conductivity	uS/cm	39	7432624	26	7434894	35	1.0	7434894
Subcontracted Analysis								
Subcontract Parameter	N/A	ATTACHED	7434308	ATTACHED	7434308	ATTACHED	N/A	7434308
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable								

BV Labs - Partial/Rush Results



BV Labs Job #: C1H1659
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
Sampler Initials: PB

RESULTS OF ANALYSES OF WATER

BV Labs ID		PXC313			PXC314			PXC315		
Sampling Date		2021/06/21 15:25			2021/06/21 18:05			2021/06/21 14:05		
COC Number		830404-01-01			830404-01-01			830404-01-01		
	UNITS	SW-14-21	RDL	QC Batch	SW-15-21	RDL	QC Batch	SW-17-21	RDL	QC Batch
Calculated Parameters										
Anion Sum	me/L	0.170	N/A	7422684	0.210	N/A	7422684	0.170	N/A	7422684
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7422674	<1.0	1.0	7422674	<1.0	1.0	7422674
Calculated TDS	mg/L	18	1.0	7422700	15	1.0	7422700	18	1.0	7422700
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7422674	<1.0	1.0	7422674	<1.0	1.0	7422674
Cation Sum	me/L	0.320	N/A	7422684	0.230	N/A	7422684	0.290	N/A	7422684
Hardness (CaCO ₃)	mg/L	4.8	1.0	7422679	3.0	1.0	7422679	3.7	1.0	7422679
Ion Balance (% Difference)	%	30.6	N/A	7422682	4.55	N/A	7422682	26.1	N/A	7422682
Langelier Index (@ 20C)	N/A	NC		7422695	NC		7422695	NC		7422695
Langelier Index (@ 4C)	N/A	NC		7422696	NC		7422696	NC		7422696
Nitrate (N)	mg/L	<0.050	0.050	7422689	<0.050	0.050	7422689	<0.050	0.050	7422689
Saturation pH (@ 20C)	N/A	NC		7422695	NC		7422695	NC		7422695
Saturation pH (@ 4C)	N/A	NC		7422696	NC		7422696	NC		7422696
Inorganics										
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7429222	<5.0	5.0	7429222	<5.0	5.0	7429222
Dissolved Chloride (Cl ⁻)	mg/L	5.9	1.0	7429228	5.0	1.0	7429228	5.9	1.0	7429228
Colour	TCU	200	25	7429231	35	5.0	7429231	260	50	7429231
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7429234	<0.050	0.050	7429234	<0.050	0.050	7429234
Nitrite (N)	mg/L	<0.010	0.010	7429237	<0.010	0.010	7429237	<0.010	0.010	7429237
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7429445	<0.050	0.050	7429423	0.052	0.050	7429423
Dissolved Organic Carbon (C)	mg/L	14	0.50	7429002	4.5	0.50	7429002	20	0.50	7429002
Total Organic Carbon (C)	mg/L	16	0.50	7434940	4.9	0.50	7434950	19	0.50	7432675
Orthophosphate (P)	mg/L	<0.010	0.010	7429232	<0.010	0.010	7429232	<0.010	0.010	7429232
pH	pH	5.29		7434898	5.52		7434898	5.45		7434898
Reactive Silica (SiO ₂)	mg/L	5.0	0.50	7429230	1.8	0.50	7429230	5.6	0.50	7429230
Dissolved Sulphate (SO ₄)	mg/L	<2.0	2.0	7429229	3.4	2.0	7429229	<2.0	2.0	7429229
Turbidity	NTU	0.93	0.10	7426553	1.8	0.10	7426553	0.87	0.10	7426553
Conductivity	uS/cm	33	1.0	7434894	27	1.0	7434894	32	1.0	7434894
Subcontracted Analysis										
Subcontract Parameter	N/A	ATTACHED	N/A	7434308	ATTACHED	N/A	7434308	ATTACHED	N/A	7434308
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable										

BV Labs - Partial/Rush Results



BV Labs Job #: C1H1659
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
Sampler Initials: PB

RESULTS OF ANALYSES OF WATER

BV Labs ID		PXC316		PXC317		PXC318		
Sampling Date		2021/06/22 10:45		2021/06/22 11:00		2021/06/21 12:00		
COC Number		830404-01-01		830404-01-01		830404-01-01		
	UNITS	SW-18-21	QC Batch	SW-19-21	RDL	SW-20-21	RDL	QC Batch
Calculated Parameters								
Anion Sum	me/L	0.180	7422684	0.190	N/A	0.190	N/A	7422684
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	7422674	<1.0	1.0	<1.0	1.0	7422674
Calculated TDS	mg/L	22	7422700	20	1.0	19	1.0	7422700
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	7422674	<1.0	1.0	<1.0	1.0	7422674
Cation Sum	me/L	0.340	7422684	0.350	N/A	0.320	N/A	7422684
Hardness (CaCO ₃)	mg/L	4.9	7422679	4.5	1.0	3.9	1.0	7422679
Ion Balance (% Difference)	%	30.8	7422682	29.6	N/A	25.5	N/A	7422682
Langelier Index (@ 20C)	N/A	NC	7422695	NC		NC		7422695
Langelier Index (@ 4C)	N/A	NC	7422696	NC		NC		7422696
Nitrate (N)	mg/L	<0.050	7422689	<0.050	0.050	<0.050	0.050	7422689
Saturation pH (@ 20C)	N/A	NC	7422695	NC		NC		7422695
Saturation pH (@ 4C)	N/A	NC	7422696	NC		NC		7422696
Inorganics								
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	7429222	<5.0	5.0	<5.0	5.0	7429222
Dissolved Chloride (Cl ⁻)	mg/L	6.4	7429228	6.8	1.0	6.7	1.0	7429228
Colour	TCU	270	7429231	300	50	230	25	7429231
Nitrate + Nitrite (N)	mg/L	<0.050	7429234	<0.050	0.050	<0.050	0.050	7429234
Nitrite (N)	mg/L	<0.010	7429237	<0.010	0.010	<0.010	0.010	7429237
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	7429423	<0.050	0.050	<0.050	0.050	7429423
Dissolved Organic Carbon (C)	mg/L	17	7429002	21	0.50	15	0.50	7429002
Total Organic Carbon (C)	mg/L	39 (1)	7434940	26 (1)	5.0	18	0.50	7434940
Orthophosphate (P)	mg/L	<0.010	7429232	<0.010	0.010	<0.010	0.010	7429232
pH	pH	5.44	7434898	4.82		5.37		7434898
Reactive Silica (SiO ₂)	mg/L	7.7	7429230	5.5	0.50	4.9	0.50	7429230
Dissolved Sulphate (SO ₄)	mg/L	<2.0	7429229	<2.0	2.0	<2.0	2.0	7429229
Turbidity	NTU	6.0	7426553	7.8	0.10	1.6	0.10	7426554
Conductivity	uS/cm	35	7434894	37	1.0	36	1.0	7434894
Subcontracted Analysis								
Subcontract Parameter	N/A	ATTACHED	7434308	ATTACHED	N/A	ATTACHED	N/A	7434308
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Elevated reporting limit due to turbidity.								

BV Labs - Partial/Rush Results



BV Labs Job #: C1H1659
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
Sampler Initials: PB

RESULTS OF ANALYSES OF WATER

BV Labs ID		PXC319		
Sampling Date		2021/06/21 18:10		
COC Number		830404-01-01		
	UNITS	SWDUPA	RDL	QC Batch
Calculated Parameters				
Anion Sum	me/L	0.140	N/A	7422684
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7422674
Calculated TDS	mg/L	11	1.0	7422700
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7422674
Cation Sum	me/L	0.220	N/A	7422684
Hardness (CaCO ₃)	mg/L	2.9	1.0	7422679
Ion Balance (% Difference)	%	22.2	N/A	7422682
Langelier Index (@ 20C)	N/A	NC		7422695
Langelier Index (@ 4C)	N/A	NC		7422696
Nitrate (N)	mg/L	0.058	0.050	7422689
Saturation pH (@ 20C)	N/A	NC		7422695
Saturation pH (@ 4C)	N/A	NC		7422696
Inorganics				
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7432836
Dissolved Chloride (Cl ⁻)	mg/L	4.7	1.0	7432839
Colour	TCU	34	5.0	7432844
Nitrate + Nitrite (N)	mg/L	0.058	0.050	7432847
Nitrite (N)	mg/L	<0.010	0.010	7432848
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7429423
Dissolved Organic Carbon (C)	mg/L	4.6	0.50	7429002
Total Organic Carbon (C)	mg/L	4.7	0.50	7434940
Orthophosphate (P)	mg/L	0.019	0.010	7432846
pH	pH	5.35		7434898
Reactive Silica (SiO ₂)	mg/L	1.7	0.50	7432842
Dissolved Sulphate (SO ₄)	mg/L	<2.0	2.0	7432840
Turbidity	NTU	1.1	0.10	7426554
Conductivity	uS/cm	26	1.0	7434894
Subcontracted Analysis				
Subcontract Parameter	N/A	ATTACHED	N/A	7434308
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable				



BV Labs Job #: C1H1659
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
Sampler Initials: PB

MERCURY BY COLD VAPOUR AA (WATER)

BV Labs ID		PXC276	PXC311	PXC312	PXC313	PXC314	PXC315		
Sampling Date		2021/06/22 09:21	2021/06/22 12:40	2021/06/21 16:40	2021/06/21 15:25	2021/06/21 18:05	2021/06/21 14:05		
COC Number		830404-01-01	830404-01-01	830404-01-01	830404-01-01	830404-01-01	830404-01-01		
	UNITS	SW-11-21	SW-12-21	SW-13-21	SW-14-21	SW-15-21	SW-17-21	RDL	QC Batch

Metals

Dissolved Mercury (Hg)	ug/L	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	0.013	7432943
Total Mercury (Hg)	ug/L	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	0.013	7432924

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

BV Labs ID		PXC316	PXC317	PXC318	PXC319		
Sampling Date		2021/06/22 10:45	2021/06/22 11:00	2021/06/21 12:00	2021/06/21 18:10		
COC Number		830404-01-01	830404-01-01	830404-01-01	830404-01-01		
	UNITS	SW-18-21	SW-19-21	SW-20-21	SWDUPA	RDL	QC Batch

Metals

Dissolved Mercury (Hg)	ug/L	<0.013	<0.013	<0.013	<0.013	0.013	7432943
Total Mercury (Hg)	ug/L	0.033	0.018	<0.013	<0.013	0.013	7432924

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BV Labs Job #: C1H1659
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
Sampler Initials: PB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PXC276			PXC311		PXC312		
Sampling Date		2021/06/22 09:21			2021/06/22 12:40		2021/06/21 16:40		
COC Number		830404-01-01			830404-01-01		830404-01-01		
	UNITS	SW-11-21	RDL	QC Batch	SW-12-21	QC Batch	SW-13-21	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	270	5.0	7429218	220	7429218	340	5.0	7429218
Total Aluminum (Al)	mg/L	0.257	0.0050	7428989	0.260	7428989	0.336	0.0050	7432501
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	7429218	<1.0	7429218	<1.0	1.0	7429218
Total Antimony (Sb)	mg/L	<0.0010	0.0010	7428989	<0.0010	7428989	<0.0010	0.0010	7432501
Dissolved Arsenic (As)	ug/L	200	1.0	7429218	10	7429218	3.3	1.0	7429218
Total Arsenic (As)	mg/L	0.333	0.0010	7428989	0.0094	7428989	0.0034	0.0010	7432501
Dissolved Barium (Ba)	ug/L				2.1	7429218	2.7	1.0	7429218
Total Barium (Ba)	mg/L	0.0034	0.0010	7428989	0.0019	7428989	0.0025	0.0010	7432501
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	7429218	<1.0	7429218	<1.0	1.0	7429218
Total Beryllium (Be)	mg/L	<0.0010	0.0010	7428989	<0.0010	7428989	<0.0010	0.0010	7432501
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	7429218	<2.0	7429218	<2.0	2.0	7429218
Total Bismuth (Bi)	mg/L	<0.0020	0.0020	7428989	<0.0020	7428989	<0.0020	0.0020	7432501
Dissolved Boron (B)	ug/L	<50	50	7429218	<50	7429218	<50	50	7429218
Total Boron (B)	mg/L	<0.050	0.050	7428989	<0.050	7428989	<0.050	0.050	7432501
Dissolved Cadmium (Cd)	ug/L	0.012	0.010	7429218	<0.010	7429218	0.011	0.010	7429218
Total Cadmium (Cd)	mg/L	0.000012	0.000010	7428989	<0.000010	7428989	0.000014	0.000010	7432501
Dissolved Calcium (Ca)	ug/L	1800	100	7429218	450	7429218	610	100	7429218
Total Calcium (Ca)	mg/L	1.74	0.10	7428989	0.45	7428989	0.62	0.10	7432501
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	7429218	<1.0	7429218	<1.0	1.0	7429218
Total Chromium (Cr)	mg/L	<0.0010	0.0010	7428989	<0.0010	7428989	<0.0010	0.0010	7432501
Dissolved Cobalt (Co)	ug/L	<0.40	0.40	7429218	<0.40	7429218	<0.40	0.40	7429218
Total Cobalt (Co)	mg/L	<0.00040	0.00040	7428989	<0.00040	7428989	<0.00040	0.00040	7432501
Dissolved Copper (Cu)	ug/L	<0.50	0.50	7429218	<0.50	7429218	<0.50	0.50	7429218
Total Copper (Cu)	mg/L	<0.00050	0.00050	7428989	<0.00050	7428989	<0.00050	0.00050	7432501
Dissolved Iron (Fe)	ug/L	860	50	7429218	250	7429218	540	50	7429218
Total Iron (Fe)	mg/L	1.51	0.050	7428989	0.323	7428989	0.524	0.050	7432501
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7429218	<0.50	7429218	<0.50	0.50	7429218
Total Lead (Pb)	mg/L	0.00055	0.00050	7428989	<0.00050	7428989	0.00052	0.00050	7432501
Dissolved Magnesium (Mg)	ug/L	690	100	7429218	320	7429218	450	100	7429218
Total Magnesium (Mg)	mg/L	0.65	0.10	7428989	0.33	7428989	0.45	0.10	7432501
Dissolved Manganese (Mn)	ug/L	32	2.0	7429218	12	7429218	33	2.0	7429218
Total Manganese (Mn)	mg/L	0.0346	0.0020	7428989	0.0127	7428989	0.0330	0.0020	7432501
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	7429218	<2.0	7429218	<2.0	2.0	7429218
Total Molybdenum (Mo)	mg/L	<0.0020	0.0020	7428989	<0.0020	7428989	<0.0020	0.0020	7432501
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									

BV Labs - Partial/Rush Results



BV Labs Job #: C1H1659
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
Sampler Initials: PB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PXC276			PXC311		PXC312		
Sampling Date		2021/06/22 09:21			2021/06/22 12:40		2021/06/21 16:40		
COC Number		830404-01-01			830404-01-01		830404-01-01		
	UNITS	SW-11-21	RDL	QC Batch	SW-12-21	QC Batch	SW-13-21	RDL	QC Batch
Dissolved Nickel (Ni)	ug/L	<2.0	2.0	7429218	<2.0	7429218	<2.0	2.0	7429218
Total Nickel (Ni)	mg/L	<0.0020	0.0020	7428989	<0.0020	7428989	<0.0020	0.0020	7432501
Dissolved Phosphorus (P)	ug/L	<100	100	7429218	<100	7429218	<100	100	7429218
Total Phosphorus (P)	mg/L	<0.10	0.10	7428989	<0.10	7428989	<0.10	0.10	7432501
Dissolved Potassium (K)	ug/L	470	100	7429218	300	7429218	250	100	7429218
Total Potassium (K)	mg/L	0.43	0.10	7428989	0.30	7428989	0.22	0.10	7432501
Dissolved Selenium (Se)	ug/L	<0.50	0.50	7429218	<0.50	7429218	<0.50	0.50	7429218
Total Selenium (Se)	mg/L	<0.00050	0.00050	7428989	<0.00050	7428989	<0.00050	0.00050	7432501
Dissolved Silver (Ag)	ug/L	<0.10	0.10	7429218	<0.10	7429218	<0.10	0.10	7429218
Total Silver (Ag)	mg/L	<0.00010	0.00010	7428989	<0.00010	7428989	<0.00010	0.00010	7432501
Dissolved Sodium (Na)	ug/L	5000	100	7429218	3200	7429218	4200	100	7429218
Total Sodium (Na)	mg/L	4.79	0.10	7428989	3.23	7428989	4.00	0.10	7432501
Dissolved Strontium (Sr)	ug/L	12	2.0	7429218	5.0	7429218	6.9	2.0	7429218
Total Strontium (Sr)	mg/L	0.0127	0.0020	7428989	0.0049	7428989	0.0077	0.0020	7432501
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	7429218	<0.10	7429218	<0.10	0.10	7429218
Total Thallium (Tl)	mg/L	<0.00010	0.00010	7428989	<0.00010	7428989	<0.00010	0.00010	7432501
Dissolved Tin (Sn)	ug/L	<2.0	2.0	7429218	<2.0	7429218	<2.0	2.0	7429218
Total Tin (Sn)	mg/L	<0.0020	0.0020	7428989	<0.0020	7428989	<0.0020	0.0020	7432501
Dissolved Titanium (Ti)	ug/L	5.1	2.0	7429218	2.2	7429218	5.2	2.0	7429218
Total Titanium (Ti)	mg/L	0.0051	0.0020	7428989	0.0039	7428989	0.0043	0.0020	7432501
Dissolved Uranium (U)	ug/L	<0.10	0.10	7429218	<0.10	7429218	<0.10	0.10	7429218
Total Uranium (U)	mg/L	<0.00010	0.00010	7428989	<0.00010	7428989	<0.00010	0.00010	7432501
Dissolved Vanadium (V)	ug/L	<2.0	2.0	7429218	<2.0	7429218	<2.0	2.0	7429218
Total Vanadium (V)	mg/L	<0.0020	0.0020	7428989	<0.0020	7428989	<0.0020	0.0020	7432501
Dissolved Zinc (Zn)	ug/L	14	5.0	7429218	6.5	7429218	6.8	5.0	7429218
Total Zinc (Zn)	mg/L	<0.0050	0.0050	7428989	<0.0050	7428989	<0.0050	0.0050	7432501
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									

BV Labs - Partial/Rush Results



BV Labs Job #: C1H1659
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
Sampler Initials: PB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PXC313	PXC314		PXC315	PXC316	PXC317		
Sampling Date		2021/06/21 15:25	2021/06/21 18:05		2021/06/21 14:05	2021/06/22 10:45	2021/06/22 11:00		
COC Number		830404-01-01	830404-01-01		830404-01-01	830404-01-01	830404-01-01		
	UNITS	SW-14-21	SW-15-21	QC Batch	SW-17-21	SW-18-21	SW-19-21	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	320	110	7429218	400	410	540	5.0	7432796
Total Aluminum (Al)	mg/L	0.379	0.126	7432501	0.400	0.776	0.766	0.0050	7432501
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	7429218	<1.0	<1.0	<1.0	1.0	7432796
Total Antimony (Sb)	mg/L	<0.0010	<0.0010	7432501	<0.0010	<0.0010	<0.0010	0.0010	7432501
Dissolved Arsenic (As)	ug/L	1.2	<1.0	7429218	<1.0	2.2	2.8	1.0	7432796
Total Arsenic (As)	mg/L	0.0014	<0.0010	7432501	<0.0010	0.0078	0.0036	0.0010	7432501
Dissolved Barium (Ba)	ug/L	2.7	2.2	7429218	2.7	3.6	3.1	1.0	7432796
Total Barium (Ba)	mg/L	0.0027	0.0023	7432501	0.0027	0.0060	0.0043	0.0010	7432501
Dissolved Beryllium (Be)	ug/L	<1.0	<1.0	7429218	<1.0	<1.0	<1.0	1.0	7432796
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	7432501	<0.0010	<0.0010	<0.0010	0.0010	7432501
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	7429218	<2.0	<2.0	<2.0	2.0	7432796
Total Bismuth (Bi)	mg/L	<0.0020	<0.0020	7432501	<0.0020	<0.0020	<0.0020	0.0020	7432501
Dissolved Boron (B)	ug/L	<50	<50	7429218	<50	<50	<50	50	7432796
Total Boron (B)	mg/L	<0.050	<0.050	7432501	<0.050	<0.050	<0.050	0.050	7432501
Dissolved Cadmium (Cd)	ug/L	0.013	0.010	7429218	0.013	0.014	0.014	0.010	7432796
Total Cadmium (Cd)	mg/L	0.000012	0.000010	7432501	0.000014	0.000019	0.000020	0.000010	7432501
Dissolved Calcium (Ca)	ug/L	1000	460	7429218	760	930	890	100	7432796
Total Calcium (Ca)	mg/L	1.01	0.47	7432501	0.76	1.05	1.00	0.10	7432501
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	7429218	<1.0	<1.0	<1.0	1.0	7432796
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	7432501	<0.0010	<0.0010	0.0012	0.0010	7432501
Dissolved Cobalt (Co)	ug/L	<0.40	<0.40	7429218	<0.40	0.49	0.52	0.40	7432796
Total Cobalt (Co)	mg/L	<0.00040	<0.00040	7432501	<0.00040	0.00082	0.00057	0.00040	7432501
Dissolved Copper (Cu)	ug/L	<0.50	<0.50	7429218	<0.50	<0.50	0.60	0.50	7432796
Total Copper (Cu)	mg/L	0.00055	<0.00050	7432501	<0.00050	0.00093	0.00129	0.00050	7432501
Dissolved Iron (Fe)	ug/L	380	74	7429218	530	1200	1700	50	7432796
Total Iron (Fe)	mg/L	0.438	0.170	7432501	0.579	3.15	2.32	0.050	7432501
Dissolved Lead (Pb)	ug/L	0.65	<0.50	7429218	0.69	0.89	1.1	0.50	7432796
Total Lead (Pb)	mg/L	0.00072	<0.00050	7432501	0.00080	0.00309	0.00256	0.00050	7432501
Dissolved Magnesium (Mg)	ug/L	550	440	7429218	440	630	550	100	7432796
Total Magnesium (Mg)	mg/L	0.51	0.43	7432501	0.43	0.76	0.61	0.10	7432501
Dissolved Manganese (Mn)	ug/L	14	14	7429218	14	370	66	2.0	7432796
Total Manganese (Mn)	mg/L	0.0153	0.0239	7432501	0.0141	0.457	0.0764	0.0020	7432501
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	7429218	<2.0	<2.0	<2.0	2.0	7432796
Total Molybdenum (Mo)	mg/L	<0.0020	<0.0020	7432501	<0.0020	<0.0020	<0.0020	0.0020	7432501
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									

BV Labs - Partial/Rush Results



BV Labs Job #: C1H1659
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
Sampler Initials: PB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PXC313	PXC314		PXC315	PXC316	PXC317		
Sampling Date		2021/06/21 15:25	2021/06/21 18:05		2021/06/21 14:05	2021/06/22 10:45	2021/06/22 11:00		
COC Number		830404-01-01	830404-01-01		830404-01-01	830404-01-01	830404-01-01		
	UNITS	SW-14-21	SW-15-21	QC Batch	SW-17-21	SW-18-21	SW-19-21	RDL	QC Batch
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	7429218	<2.0	<2.0	<2.0	2.0	7432796
Total Nickel (Ni)	mg/L	<0.0020	<0.0020	7432501	<0.0020	<0.0020	<0.0020	0.0020	7432501
Dissolved Phosphorus (P)	ug/L	<100	<100	7429218	<100	<100	<100	100	7432796
Total Phosphorus (P)	mg/L	<0.10	<0.10	7432501	<0.10	0.16	<0.10	0.10	7432501
Dissolved Potassium (K)	ug/L	300	300	7429218	280	410	460	100	7432796
Total Potassium (K)	mg/L	0.28	0.30	7432501	0.28	0.53	0.49	0.10	7432501
Dissolved Selenium (Se)	ug/L	<0.50	<0.50	7429218	<0.50	<0.50	<0.50	0.50	7432796
Total Selenium (Se)	mg/L	<0.00050	<0.00050	7432501	<0.00050	<0.00050	<0.00050	0.00050	7432501
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	7429218	<0.10	<0.10	<0.10	0.10	7432796
Total Silver (Ag)	mg/L	<0.00010	<0.00010	7432501	<0.00010	<0.00010	<0.00010	0.00010	7432501
Dissolved Sodium (Na)	ug/L	4500	3600	7429218	4100	4300	4000	100	7432796
Total Sodium (Na)	mg/L	4.10	3.42	7432501	3.96	4.40	4.02	0.10	7432501
Dissolved Strontium (Sr)	ug/L	8.6	4.8	7429218	7.3	7.1	6.3	2.0	7432796
Total Strontium (Sr)	mg/L	0.0089	0.0049	7432501	0.0076	0.0088	0.0073	0.0020	7432501
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	7429218	<0.10	<0.10	<0.10	0.10	7432796
Total Thallium (Tl)	mg/L	<0.00010	<0.00010	7432501	<0.00010	<0.00010	<0.00010	0.00010	7432501
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	7429218	<2.0	<2.0	<2.0	2.0	7432796
Total Tin (Sn)	mg/L	<0.0020	<0.0020	7432501	<0.0020	<0.0020	<0.0020	0.0020	7432501
Dissolved Titanium (Ti)	ug/L	3.5	<2.0	7429218	4.3	7.0	7.2	2.0	7432796
Total Titanium (Ti)	mg/L	0.0047	<0.0020	7432501	0.0054	0.0224	0.0187	0.0020	7432501
Dissolved Uranium (U)	ug/L	<0.10	<0.10	7429218	<0.10	<0.10	<0.10	0.10	7432796
Total Uranium (U)	mg/L	<0.00010	<0.00010	7432501	<0.00010	<0.00010	<0.00010	0.00010	7432501
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	7429218	<2.0	<2.0	<2.0	2.0	7432796
Total Vanadium (V)	mg/L	<0.0020	<0.0020	7432501	<0.0020	<0.0020	<0.0020	0.0020	7432501
Dissolved Zinc (Zn)	ug/L	5.1	<5.0	7429218	6.7	13	13	5.0	7432796
Total Zinc (Zn)	mg/L	<0.0050	0.0054	7432501	<0.0050	0.0051	<0.0050	0.0050	7432501

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

BV Labs - Partial/Rush Results



BV Labs Job #: C1H1659
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
Sampler Initials: PB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PXC318	PXC319		
Sampling Date		2021/06/21 12:00	2021/06/21 18:10		
COC Number		830404-01-01	830404-01-01		
	UNITS	SW-20-21	SWDUPA	RDL	QC Batch
Metals					
Dissolved Aluminum (Al)	ug/L	520	100	5.0	7432796
Total Aluminum (Al)	mg/L	0.547	0.127	0.0050	7432501
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	1.0	7432796
Total Antimony (Sb)	mg/L	<0.0010	<0.0010	0.0010	7432501
Dissolved Arsenic (As)	ug/L	15	<1.0	1.0	7432796
Total Arsenic (As)	mg/L	0.0150	<0.0010	0.0010	7432501
Dissolved Barium (Ba)	ug/L	2.8	2.1	1.0	7432796
Total Barium (Ba)	mg/L	0.0029	0.0024	0.0010	7432501
Dissolved Beryllium (Be)	ug/L	<1.0	<1.0	1.0	7432796
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	0.0010	7432501
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	2.0	7432796
Total Bismuth (Bi)	mg/L	<0.0020	<0.0020	0.0020	7432501
Dissolved Boron (B)	ug/L	<50	<50	50	7432796
Total Boron (B)	mg/L	<0.050	<0.050	0.050	7432501
Dissolved Cadmium (Cd)	ug/L	0.015	0.010	0.010	7432796
Total Cadmium (Cd)	mg/L	0.000014	<0.000010	0.000010	7432501
Dissolved Calcium (Ca)	ug/L	680	450	100	7432796
Total Calcium (Ca)	mg/L	0.67	0.46	0.10	7432501
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	1.0	7432796
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	0.0010	7432501
Dissolved Cobalt (Co)	ug/L	<0.40	<0.40	0.40	7432796
Total Cobalt (Co)	mg/L	0.00043	<0.00040	0.00040	7432501
Dissolved Copper (Cu)	ug/L	0.56	<0.50	0.50	7432796
Total Copper (Cu)	mg/L	0.00060	<0.00050	0.00050	7432501
Dissolved Iron (Fe)	ug/L	790	67	50	7432796
Total Iron (Fe)	mg/L	0.841	0.166	0.050	7432501
Dissolved Lead (Pb)	ug/L	0.77	<0.50	0.50	7432796
Total Lead (Pb)	mg/L	0.00086	<0.00050	0.00050	7432501
Dissolved Magnesium (Mg)	ug/L	520	430	100	7432796
Total Magnesium (Mg)	mg/L	0.49	0.42	0.10	7432501
Dissolved Manganese (Mn)	ug/L	42	14	2.0	7432796
Total Manganese (Mn)	mg/L	0.0426	0.0226	0.0020	7432501
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	2.0	7432796
Total Molybdenum (Mo)	mg/L	<0.0020	<0.0020	0.0020	7432501
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BV Labs Job #: C1H1659
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
Sampler Initials: PB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PXC318	PXC319		
Sampling Date		2021/06/21 12:00	2021/06/21 18:10		
COC Number		830404-01-01	830404-01-01		
	UNITS	SW-20-21	SWDUPA	RDL	QC Batch
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	2.0	7432796
Total Nickel (Ni)	mg/L	<0.0020	<0.0020	0.0020	7432501
Dissolved Phosphorus (P)	ug/L	<100	<100	100	7432796
Total Phosphorus (P)	mg/L	<0.10	<0.10	0.10	7432501
Dissolved Potassium (K)	ug/L	510	290	100	7432796
Total Potassium (K)	mg/L	0.51	0.31	0.10	7432501
Dissolved Selenium (Se)	ug/L	<0.50	<0.50	0.50	7432796
Total Selenium (Se)	mg/L	<0.00050	<0.00050	0.00050	7432501
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	0.10	7432796
Total Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	7432501
Dissolved Sodium (Na)	ug/L	4500	3400	100	7432796
Total Sodium (Na)	mg/L	4.31	3.32	0.10	7432501
Dissolved Strontium (Sr)	ug/L	7.4	5.1	2.0	7432796
Total Strontium (Sr)	mg/L	0.0067	0.0050	0.0020	7432501
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	0.10	7432796
Total Thallium (Tl)	mg/L	<0.00010	<0.00010	0.00010	7432501
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	2.0	7432796
Total Tin (Sn)	mg/L	<0.0020	<0.0020	0.0020	7432501
Dissolved Titanium (Ti)	ug/L	7.9	<2.0	2.0	7432796
Total Titanium (Ti)	mg/L	0.0085	<0.0020	0.0020	7432501
Dissolved Uranium (U)	ug/L	<0.10	<0.10	0.10	7432796
Total Uranium (U)	mg/L	<0.00010	<0.00010	0.00010	7432501
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	2.0	7432796
Total Vanadium (V)	mg/L	<0.0020	<0.0020	0.0020	7432501
Dissolved Zinc (Zn)	ug/L	6.6	<5.0	5.0	7432796
Total Zinc (Zn)	mg/L	<0.0050	<0.0050	0.0050	7432501
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.0°C
Package 2	1.0°C

Sample PXC276 [SW-11-21] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent. RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PXC311 [SW-12-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PXC312 [SW-13-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PXC313 [SW-14-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PXC315 [SW-17-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PXC316 [SW-18-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PXC317 [SW-19-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PXC318 [SW-20-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample PXC319 [SWDUPA] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent. RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Results relate only to the items tested.



BV Labs Job #: C1H1659
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
Sampler Initials: PB

QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7426549	SHW	QC Standard		Turbidity	2021/06/24		100	%	80 - 120
7426549	SHW	Spiked Blank		Turbidity	2021/06/24		106	%	80 - 120
7426549	SHW	Method Blank		Turbidity	2021/06/24	<0.10		NTU	
7426549	SHW	RPD [PXC312-01]		Turbidity	2021/06/24	12		%	20
7426553	SHW	QC Standard		Turbidity	2021/06/24		99	%	80 - 120
7426553	SHW	Spiked Blank		Turbidity	2021/06/24		103	%	80 - 120
7426553	SHW	Method Blank		Turbidity	2021/06/24	<0.10		NTU	
7426553	SHW	RPD		Turbidity	2021/06/24	0.54		%	20
7426554	SHW	QC Standard		Turbidity	2021/06/24		99	%	80 - 120
7426554	SHW	Spiked Blank		Turbidity	2021/06/24		103	%	80 - 120
7426554	SHW	Method Blank		Turbidity	2021/06/24	<0.10		NTU	
7426554	SHW	RPD		Turbidity	2021/06/24	14		%	20
7426809	MCN	Matrix Spike		Nitrogen (Ammonia Nitrogen)	2021/06/25		104	%	80 - 120
7426809	MCN	Spiked Blank		Nitrogen (Ammonia Nitrogen)	2021/06/24		96	%	80 - 120
7426809	MCN	Method Blank		Nitrogen (Ammonia Nitrogen)	2021/06/24	<0.050		mg/L	
7426809	MCN	RPD		Nitrogen (Ammonia Nitrogen)	2021/06/25	NC		%	20
7428989	BAN	Matrix Spike		Total Aluminum (Al)	2021/06/29		NC	%	80 - 120
				Total Antimony (Sb)	2021/06/29		105	%	80 - 120
				Total Arsenic (As)	2021/06/29		91	%	80 - 120
				Total Barium (Ba)	2021/06/29		NC	%	80 - 120
				Total Beryllium (Be)	2021/06/29		95	%	80 - 120
				Total Bismuth (Bi)	2021/06/29		96	%	80 - 120
				Total Boron (B)	2021/06/29		102	%	80 - 120
				Total Cadmium (Cd)	2021/06/29		95	%	80 - 120
				Total Calcium (Ca)	2021/06/29		NC	%	80 - 120
				Total Chromium (Cr)	2021/06/29		96	%	80 - 120
				Total Cobalt (Co)	2021/06/29		93	%	80 - 120
				Total Copper (Cu)	2021/06/29		93	%	80 - 120
				Total Iron (Fe)	2021/06/29		NC	%	80 - 120
				Total Lead (Pb)	2021/06/29		96	%	80 - 120
				Total Magnesium (Mg)	2021/06/29		NC	%	80 - 120
				Total Manganese (Mn)	2021/06/29		94	%	80 - 120
				Total Molybdenum (Mo)	2021/06/29		100	%	80 - 120
				Total Nickel (Ni)	2021/06/29		93	%	80 - 120
				Total Phosphorus (P)	2021/06/29		99	%	80 - 120
				Total Potassium (K)	2021/06/29		NC	%	80 - 120
				Total Selenium (Se)	2021/06/29		94	%	80 - 120
				Total Silver (Ag)	2021/06/29		96	%	80 - 120
				Total Sodium (Na)	2021/06/29		92	%	80 - 120
				Total Strontium (Sr)	2021/06/29		NC	%	80 - 120
				Total Thallium (Tl)	2021/06/29		97	%	80 - 120
				Total Tin (Sn)	2021/06/29		97	%	80 - 120
				Total Titanium (Ti)	2021/06/29		82	%	80 - 120
				Total Uranium (U)	2021/06/29		101	%	80 - 120
				Total Vanadium (V)	2021/06/29		95	%	80 - 120
				Total Zinc (Zn)	2021/06/29		93	%	80 - 120
7428989	BAN	Spiked Blank		Total Aluminum (Al)	2021/06/25		99	%	80 - 120
				Total Antimony (Sb)	2021/06/25		105	%	80 - 120
				Total Arsenic (As)	2021/06/25		93	%	80 - 120
				Total Barium (Ba)	2021/06/25		96	%	80 - 120
				Total Beryllium (Be)	2021/06/25		98	%	80 - 120
				Total Bismuth (Bi)	2021/06/25		98	%	80 - 120
				Total Boron (B)	2021/06/25		102	%	80 - 120

BV Labs - Partial/Rush Results



BV Labs Job #: C1H1659
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
Sampler Initials: PB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Total Cadmium (Cd)	2021/06/25		98	%	80 - 120
				Total Calcium (Ca)	2021/06/25		101	%	80 - 120
				Total Chromium (Cr)	2021/06/25		97	%	80 - 120
				Total Cobalt (Co)	2021/06/25		98	%	80 - 120
				Total Copper (Cu)	2021/06/25		99	%	80 - 120
				Total Iron (Fe)	2021/06/25		100	%	80 - 120
				Total Lead (Pb)	2021/06/25		100	%	80 - 120
				Total Magnesium (Mg)	2021/06/25		98	%	80 - 120
				Total Manganese (Mn)	2021/06/25		99	%	80 - 120
				Total Molybdenum (Mo)	2021/06/25		101	%	80 - 120
				Total Nickel (Ni)	2021/06/25		97	%	80 - 120
				Total Phosphorus (P)	2021/06/25		99	%	80 - 120
				Total Potassium (K)	2021/06/25		98	%	80 - 120
				Total Selenium (Se)	2021/06/25		95	%	80 - 120
				Total Silver (Ag)	2021/06/25		95	%	80 - 120
				Total Sodium (Na)	2021/06/25		96	%	80 - 120
				Total Strontium (Sr)	2021/06/25		97	%	80 - 120
				Total Thallium (Tl)	2021/06/25		99	%	80 - 120
				Total Tin (Sn)	2021/06/25		97	%	80 - 120
				Total Titanium (Ti)	2021/06/25		100	%	80 - 120
				Total Uranium (U)	2021/06/25		105	%	80 - 120
				Total Vanadium (V)	2021/06/25		98	%	80 - 120
				Total Zinc (Zn)	2021/06/25		96	%	80 - 120
	7428989	BAN	Method Blank	Total Aluminum (Al)	2021/06/25	<0.0050		mg/L	
				Total Antimony (Sb)	2021/06/25	<0.0010		mg/L	
				Total Arsenic (As)	2021/06/25	<0.0010		mg/L	
				Total Barium (Ba)	2021/06/25	<0.0010		mg/L	
				Total Beryllium (Be)	2021/06/25	<0.0010		mg/L	
				Total Bismuth (Bi)	2021/06/25	<0.0020		mg/L	
				Total Boron (B)	2021/06/25	<0.050		mg/L	
				Total Cadmium (Cd)	2021/06/25	<0.000010		mg/L	
				Total Calcium (Ca)	2021/06/25	<0.10		mg/L	
				Total Chromium (Cr)	2021/06/25	<0.0010		mg/L	
				Total Cobalt (Co)	2021/06/25	<0.00040		mg/L	
				Total Copper (Cu)	2021/06/25	<0.00050		mg/L	
				Total Iron (Fe)	2021/06/25	<0.050		mg/L	
				Total Lead (Pb)	2021/06/25	<0.00050		mg/L	
				Total Magnesium (Mg)	2021/06/25	<0.10		mg/L	
				Total Manganese (Mn)	2021/06/25	<0.0020		mg/L	
				Total Molybdenum (Mo)	2021/06/25	<0.0020		mg/L	
				Total Nickel (Ni)	2021/06/25	<0.0020		mg/L	
				Total Phosphorus (P)	2021/06/25	<0.10		mg/L	
				Total Potassium (K)	2021/06/25	<0.10		mg/L	
				Total Selenium (Se)	2021/06/25	<0.00050		mg/L	
				Total Silver (Ag)	2021/06/25	<0.00010		mg/L	
				Total Sodium (Na)	2021/06/25	<0.10		mg/L	
				Total Strontium (Sr)	2021/06/25	<0.0020		mg/L	
				Total Thallium (Tl)	2021/06/25	<0.00010		mg/L	
				Total Tin (Sn)	2021/06/25	<0.0020		mg/L	
				Total Titanium (Ti)	2021/06/25	<0.0020		mg/L	
				Total Uranium (U)	2021/06/25	<0.00010		mg/L	
				Total Vanadium (V)	2021/06/25	<0.0020		mg/L	
				Total Zinc (Zn)	2021/06/25	<0.0050		mg/L	

BV Labs - Partial/Rush Results



BV Labs Job #: C1H1659
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
Sampler Initials: PB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
	7428989	BAN	RPD	Total Aluminum (Al)	2021/06/25	0.33		%	20
				Total Antimony (Sb)	2021/06/25	NC		%	20
				Total Arsenic (As)	2021/06/25	9.9		%	20
				Total Barium (Ba)	2021/06/25	5.3		%	20
				Total Beryllium (Be)	2021/06/25	NC		%	20
				Total Bismuth (Bi)	2021/06/25	NC		%	20
				Total Boron (B)	2021/06/25	NC		%	20
				Total Cadmium (Cd)	2021/06/25	9.2		%	20
				Total Calcium (Ca)	2021/06/25	4.0		%	20
				Total Chromium (Cr)	2021/06/25	9.9		%	20
				Total Cobalt (Co)	2021/06/25	0.23		%	20
				Total Copper (Cu)	2021/06/25	2.2		%	20
				Total Iron (Fe)	2021/06/25	9.4		%	20
				Total Lead (Pb)	2021/06/25	2.1		%	20
				Total Magnesium (Mg)	2021/06/25	3.5		%	20
				Total Manganese (Mn)	2021/06/25	4.6		%	20
				Total Molybdenum (Mo)	2021/06/25	NC		%	20
				Total Nickel (Ni)	2021/06/25	0.22		%	20
				Total Phosphorus (P)	2021/06/25	NC		%	20
				Total Potassium (K)	2021/06/25	3.1		%	20
				Total Selenium (Se)	2021/06/25	8.8		%	20
				Total Silver (Ag)	2021/06/25	NC		%	20
				Total Sodium (Na)	2021/06/25	3.5		%	20
				Total Strontium (Sr)	2021/06/25	4.3		%	20
				Total Thallium (Tl)	2021/06/25	NC		%	20
				Total Tin (Sn)	2021/06/25	NC		%	20
				Total Titanium (Ti)	2021/06/25	1.3		%	20
				Total Uranium (U)	2021/06/25	1.9		%	20
				Total Vanadium (V)	2021/06/25	2.3		%	20
				Total Zinc (Zn)	2021/06/25	3.0		%	20
	7429002	KMC	Matrix Spike	Dissolved Organic Carbon (C)	2021/06/26		87	%	85 - 115
	7429002	KMC	Spiked Blank	Dissolved Organic Carbon (C)	2021/06/26		94	%	80 - 120
	7429002	KMC	Method Blank	Dissolved Organic Carbon (C)	2021/06/26	<0.50		mg/L	
	7429002	KMC	RPD	Dissolved Organic Carbon (C)	2021/06/26	0.79		%	15
	7429218	MLB	Matrix Spike [PXC312-02]	Dissolved Aluminum (Al)	2021/06/25		98	%	80 - 120
				Dissolved Antimony (Sb)	2021/06/25		100	%	80 - 120
				Dissolved Arsenic (As)	2021/06/25		94	%	80 - 120
				Dissolved Barium (Ba)	2021/06/25		97	%	80 - 120
				Dissolved Beryllium (Be)	2021/06/25		99	%	80 - 120
				Dissolved Bismuth (Bi)	2021/06/25		95	%	80 - 120
				Dissolved Boron (B)	2021/06/25		104	%	80 - 120
				Dissolved Cadmium (Cd)	2021/06/25		98	%	80 - 120
				Dissolved Calcium (Ca)	2021/06/25		101	%	80 - 120
				Dissolved Chromium (Cr)	2021/06/25		99	%	80 - 120
				Dissolved Cobalt (Co)	2021/06/25		98	%	80 - 120
				Dissolved Copper (Cu)	2021/06/25		99	%	80 - 120
				Dissolved Iron (Fe)	2021/06/25		96	%	80 - 120
				Dissolved Lead (Pb)	2021/06/25		98	%	80 - 120
				Dissolved Magnesium (Mg)	2021/06/25		100	%	80 - 120
				Dissolved Manganese (Mn)	2021/06/25		98	%	80 - 120
				Dissolved Molybdenum (Mo)	2021/06/25		99	%	80 - 120
				Dissolved Nickel (Ni)	2021/06/25		98	%	80 - 120
				Dissolved Phosphorus (P)	2021/06/25		102	%	80 - 120

BV Labs - Partial/Rush Results



BV Labs Job #: C1H1659
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7429218	MLB	Spiked Blank		Dissolved Potassium (K)	2021/06/25		98	%	80 - 120
				Dissolved Selenium (Se)	2021/06/25		96	%	80 - 120
				Dissolved Silver (Ag)	2021/06/25		96	%	80 - 120
				Dissolved Sodium (Na)	2021/06/25		96	%	80 - 120
				Dissolved Strontium (Sr)	2021/06/25		97	%	80 - 120
				Dissolved Thallium (Tl)	2021/06/25		100	%	80 - 120
				Dissolved Tin (Sn)	2021/06/25		96	%	80 - 120
				Dissolved Titanium (Ti)	2021/06/25		98	%	80 - 120
				Dissolved Uranium (U)	2021/06/25		105	%	80 - 120
				Dissolved Vanadium (V)	2021/06/25		98	%	80 - 120
				Dissolved Zinc (Zn)	2021/06/25		98	%	80 - 120
				Dissolved Aluminum (Al)	2021/06/25		99	%	80 - 120
				Dissolved Antimony (Sb)	2021/06/25		103	%	80 - 120
				Dissolved Arsenic (As)	2021/06/25		94	%	80 - 120
				Dissolved Barium (Ba)	2021/06/25		98	%	80 - 120
				Dissolved Beryllium (Be)	2021/06/25		99	%	80 - 120
				Dissolved Bismuth (Bi)	2021/06/25		99	%	80 - 120
				Dissolved Boron (B)	2021/06/25		104	%	80 - 120
				Dissolved Cadmium (Cd)	2021/06/25		99	%	80 - 120
				Dissolved Calcium (Ca)	2021/06/25		100	%	80 - 120
				Dissolved Chromium (Cr)	2021/06/25		97	%	80 - 120
				Dissolved Cobalt (Co)	2021/06/25		96	%	80 - 120
				Dissolved Copper (Cu)	2021/06/25		98	%	80 - 120
				Dissolved Iron (Fe)	2021/06/25		99	%	80 - 120
				Dissolved Lead (Pb)	2021/06/25		100	%	80 - 120
				Dissolved Magnesium (Mg)	2021/06/25		99	%	80 - 120
				Dissolved Manganese (Mn)	2021/06/25		98	%	80 - 120
				Dissolved Molybdenum (Mo)	2021/06/25		102	%	80 - 120
				Dissolved Nickel (Ni)	2021/06/25		98	%	80 - 120
				Dissolved Phosphorus (P)	2021/06/25		102	%	80 - 120
				Dissolved Potassium (K)	2021/06/25		99	%	80 - 120
				Dissolved Selenium (Se)	2021/06/25		97	%	80 - 120
				Dissolved Silver (Ag)	2021/06/25		99	%	80 - 120
				Dissolved Sodium (Na)	2021/06/25		96	%	80 - 120
				Dissolved Strontium (Sr)	2021/06/25		98	%	80 - 120
				Dissolved Thallium (Tl)	2021/06/25		101	%	80 - 120
				Dissolved Tin (Sn)	2021/06/25		103	%	80 - 120
				Dissolved Titanium (Ti)	2021/06/25		101	%	80 - 120
				Dissolved Uranium (U)	2021/06/25		102	%	80 - 120
				Dissolved Vanadium (V)	2021/06/25		98	%	80 - 120
				Dissolved Zinc (Zn)	2021/06/25		98	%	80 - 120
7429218	MLB	Method Blank		Dissolved Aluminum (Al)	2021/06/25	<5.0		ug/L	
				Dissolved Antimony (Sb)	2021/06/25	<1.0		ug/L	
				Dissolved Arsenic (As)	2021/06/25	<1.0		ug/L	
				Dissolved Barium (Ba)	2021/06/25	<1.0		ug/L	
				Dissolved Beryllium (Be)	2021/06/25	<1.0		ug/L	
				Dissolved Bismuth (Bi)	2021/06/25	<2.0		ug/L	
				Dissolved Boron (B)	2021/06/25	<50		ug/L	
				Dissolved Cadmium (Cd)	2021/06/25	<0.010		ug/L	
				Dissolved Calcium (Ca)	2021/06/25	<100		ug/L	
				Dissolved Chromium (Cr)	2021/06/25	<1.0		ug/L	
				Dissolved Cobalt (Co)	2021/06/25	<0.40		ug/L	
				Dissolved Copper (Cu)	2021/06/25	<0.50		ug/L	



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Anaconda Mining Inc
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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Dissolved Iron (Fe)	2021/06/25	<50		ug/L	
				Dissolved Lead (Pb)	2021/06/25	<0.50		ug/L	
				Dissolved Magnesium (Mg)	2021/06/25	<100		ug/L	
				Dissolved Manganese (Mn)	2021/06/25	<2.0		ug/L	
				Dissolved Molybdenum (Mo)	2021/06/25	<2.0		ug/L	
				Dissolved Nickel (Ni)	2021/06/25	<2.0		ug/L	
				Dissolved Phosphorus (P)	2021/06/25	<100		ug/L	
				Dissolved Potassium (K)	2021/06/25	<100		ug/L	
				Dissolved Selenium (Se)	2021/06/25	<0.50		ug/L	
				Dissolved Silver (Ag)	2021/06/25	<0.10		ug/L	
				Dissolved Sodium (Na)	2021/06/25	<100		ug/L	
				Dissolved Strontium (Sr)	2021/06/25	<2.0		ug/L	
				Dissolved Thallium (Tl)	2021/06/25	<0.10		ug/L	
				Dissolved Tin (Sn)	2021/06/25	<2.0		ug/L	
				Dissolved Titanium (Ti)	2021/06/25	<2.0		ug/L	
				Dissolved Uranium (U)	2021/06/25	<0.10		ug/L	
				Dissolved Vanadium (V)	2021/06/25	<2.0		ug/L	
				Dissolved Zinc (Zn)	2021/06/25	<5.0		ug/L	
7429218	MLB	RPD [PXC312-02]		Dissolved Aluminum (Al)	2021/06/25	0.40		%	20
				Dissolved Antimony (Sb)	2021/06/25	NC		%	20
				Dissolved Arsenic (As)	2021/06/25	2.8		%	20
				Dissolved Barium (Ba)	2021/06/25	2.7		%	20
				Dissolved Beryllium (Be)	2021/06/25	NC		%	20
				Dissolved Bismuth (Bi)	2021/06/25	NC		%	20
				Dissolved Boron (B)	2021/06/25	NC		%	20
				Dissolved Cadmium (Cd)	2021/06/25	NC		%	20
				Dissolved Calcium (Ca)	2021/06/25	2.1		%	20
				Dissolved Chromium (Cr)	2021/06/25	NC		%	20
				Dissolved Cobalt (Co)	2021/06/25	NC		%	20
				Dissolved Copper (Cu)	2021/06/25	NC		%	20
				Dissolved Iron (Fe)	2021/06/25	0.30		%	20
				Dissolved Lead (Pb)	2021/06/25	1.6		%	20
				Dissolved Magnesium (Mg)	2021/06/25	2.2		%	20
				Dissolved Manganese (Mn)	2021/06/25	1.2		%	20
				Dissolved Molybdenum (Mo)	2021/06/25	NC		%	20
				Dissolved Nickel (Ni)	2021/06/25	NC		%	20
				Dissolved Phosphorus (P)	2021/06/25	NC		%	20
				Dissolved Potassium (K)	2021/06/25	0.74		%	20
				Dissolved Selenium (Se)	2021/06/25	NC		%	20
				Dissolved Silver (Ag)	2021/06/25	NC		%	20
				Dissolved Sodium (Na)	2021/06/25	0.96		%	20
				Dissolved Strontium (Sr)	2021/06/25	3.8		%	20
				Dissolved Thallium (Tl)	2021/06/25	NC		%	20
				Dissolved Tin (Sn)	2021/06/25	NC		%	20
				Dissolved Titanium (Ti)	2021/06/25	11		%	20
				Dissolved Uranium (U)	2021/06/25	NC		%	20
				Dissolved Vanadium (V)	2021/06/25	NC		%	20
				Dissolved Zinc (Zn)	2021/06/25	2.8		%	20
7429222	EMT	Matrix Spike		Total Alkalinity (Total as CaCO3)	2021/06/28		90	%	80 - 120
7429222	EMT	Spiked Blank		Total Alkalinity (Total as CaCO3)	2021/06/29		102	%	80 - 120
7429222	EMT	Method Blank		Total Alkalinity (Total as CaCO3)	2021/06/28	<5.0		mg/L	
7429222	EMT	RPD		Total Alkalinity (Total as CaCO3)	2021/06/28	1.9		%	20
7429228	EMT	Matrix Spike		Dissolved Chloride (Cl-)	2021/06/28		102	%	80 - 120

BV Labs - Partial/Rush Results



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Anaconda Mining Inc
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Your P.O. #: 2021- 0267
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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
	7429228	EMT	Spiked Blank	Dissolved Chloride (Cl-)	2021/06/28		97	%	80 - 120
	7429228	EMT	Method Blank	Dissolved Chloride (Cl-)	2021/06/28	<1.0		mg/L	
	7429228	EMT	RPD	Dissolved Chloride (Cl-)	2021/06/28	1.3		%	20
	7429229	EMT	Matrix Spike	Dissolved Sulphate (SO4)	2021/06/29		108	%	80 - 120
	7429229	EMT	Spiked Blank	Dissolved Sulphate (SO4)	2021/06/28		109	%	80 - 120
	7429229	EMT	Method Blank	Dissolved Sulphate (SO4)	2021/06/29	<2.0		mg/L	
	7429229	EMT	RPD	Dissolved Sulphate (SO4)	2021/06/28	19		%	20
	7429230	EMT	Matrix Spike	Reactive Silica (SiO2)	2021/06/28		92	%	80 - 120
	7429230	EMT	Spiked Blank	Reactive Silica (SiO2)	2021/06/28		96	%	80 - 120
	7429230	EMT	Method Blank	Reactive Silica (SiO2)	2021/06/28	<0.50		mg/L	
	7429230	EMT	RPD	Reactive Silica (SiO2)	2021/06/28	13		%	20
	7429231	EMT	Spiked Blank	Colour	2021/06/29		96	%	80 - 120
	7429231	EMT	Method Blank	Colour	2021/06/29	<5.0		TCU	
	7429231	EMT	RPD	Colour	2021/06/29	0.37		%	20
	7429232	EMT	Matrix Spike	Orthophosphate (P)	2021/06/28		93	%	80 - 120
	7429232	EMT	Spiked Blank	Orthophosphate (P)	2021/06/28		94	%	80 - 120
	7429232	EMT	Method Blank	Orthophosphate (P)	2021/06/28	<0.010		mg/L	
	7429232	EMT	RPD	Orthophosphate (P)	2021/06/28	NC		%	20
	7429234	EMT	Matrix Spike	Nitrate + Nitrite (N)	2021/06/28		95	%	80 - 120
	7429234	EMT	Spiked Blank	Nitrate + Nitrite (N)	2021/06/28		98	%	80 - 120
	7429234	EMT	Method Blank	Nitrate + Nitrite (N)	2021/06/28	<0.050		mg/L	
	7429234	EMT	RPD	Nitrate + Nitrite (N)	2021/06/28	NC		%	20
	7429237	EMT	Matrix Spike	Nitrite (N)	2021/06/28		97	%	80 - 120
	7429237	EMT	Spiked Blank	Nitrite (N)	2021/06/28		99	%	80 - 120
	7429237	EMT	Method Blank	Nitrite (N)	2021/06/28	<0.010		mg/L	
	7429237	EMT	RPD	Nitrite (N)	2021/06/28	NC		%	20
	7429423	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2021/06/28		103	%	80 - 120
	7429423	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2021/06/28		107	%	80 - 120
	7429423	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2021/06/28	<0.050		mg/L	
	7429423	MCN	RPD	Nitrogen (Ammonia Nitrogen)	2021/06/28	NC		%	20
	7429445	EMT	Matrix Spike [PXC313-03]	Nitrogen (Ammonia Nitrogen)	2021/06/29		102	%	80 - 120
	7429445	EMT	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2021/06/28		106	%	80 - 120
	7429445	EMT	Method Blank	Nitrogen (Ammonia Nitrogen)	2021/06/28	<0.050		mg/L	
	7429445	EMT	RPD [PXC313-03]	Nitrogen (Ammonia Nitrogen)	2021/06/29	NC		%	20
	7432501	BAN	Matrix Spike	Total Aluminum (Al)	2021/06/29		94	%	80 - 120
				Total Antimony (Sb)	2021/06/29		103	%	80 - 120
				Total Arsenic (As)	2021/06/29		89	%	80 - 120
				Total Barium (Ba)	2021/06/29		92	%	80 - 120
				Total Beryllium (Be)	2021/06/29		93	%	80 - 120
				Total Bismuth (Bi)	2021/06/29		97	%	80 - 120
				Total Boron (B)	2021/06/29		93	%	80 - 120
				Total Cadmium (Cd)	2021/06/29		93	%	80 - 120
				Total Calcium (Ca)	2021/06/29		96	%	80 - 120
				Total Chromium (Cr)	2021/06/29		90	%	80 - 120
				Total Cobalt (Co)	2021/06/29		91	%	80 - 120
				Total Copper (Cu)	2021/06/29		91	%	80 - 120
				Total Iron (Fe)	2021/06/29		94	%	80 - 120
				Total Lead (Pb)	2021/06/29		97	%	80 - 120
				Total Magnesium (Mg)	2021/06/29		95	%	80 - 120
				Total Manganese (Mn)	2021/06/29		93	%	80 - 120
				Total Molybdenum (Mo)	2021/06/29		97	%	80 - 120
				Total Nickel (Ni)	2021/06/29		91	%	80 - 120
				Total Phosphorus (P)	2021/06/29		93	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7432501	BAN	Spiked Blank		Total Potassium (K)	2021/06/29		92	%	80 - 120
				Total Selenium (Se)	2021/06/29		92	%	80 - 120
				Total Silver (Ag)	2021/06/29		94	%	80 - 120
				Total Sodium (Na)	2021/06/29		NC	%	80 - 120
				Total Strontium (Sr)	2021/06/29		96	%	80 - 120
				Total Thallium (Tl)	2021/06/29		97	%	80 - 120
				Total Tin (Sn)	2021/06/29		98	%	80 - 120
				Total Titanium (Ti)	2021/06/29		94	%	80 - 120
				Total Uranium (U)	2021/06/29		103	%	80 - 120
				Total Vanadium (V)	2021/06/29		94	%	80 - 120
				Total Zinc (Zn)	2021/06/29		92	%	80 - 120
				Total Aluminum (Al)	2021/06/29		94	%	80 - 120
				Total Antimony (Sb)	2021/06/29		103	%	80 - 120
				Total Arsenic (As)	2021/06/29		89	%	80 - 120
				Total Barium (Ba)	2021/06/29		93	%	80 - 120
				Total Beryllium (Be)	2021/06/29		92	%	80 - 120
				Total Bismuth (Bi)	2021/06/29		98	%	80 - 120
				Total Boron (B)	2021/06/29		90	%	80 - 120
				Total Cadmium (Cd)	2021/06/29		94	%	80 - 120
				Total Calcium (Ca)	2021/06/29		94	%	80 - 120
				Total Chromium (Cr)	2021/06/29		92	%	80 - 120
				Total Cobalt (Co)	2021/06/29		93	%	80 - 120
				Total Copper (Cu)	2021/06/29		94	%	80 - 120
				Total Iron (Fe)	2021/06/29		96	%	80 - 120
				Total Lead (Pb)	2021/06/29		98	%	80 - 120
				Total Magnesium (Mg)	2021/06/29		95	%	80 - 120
				Total Manganese (Mn)	2021/06/29		95	%	80 - 120
				Total Molybdenum (Mo)	2021/06/29		97	%	80 - 120
				Total Nickel (Ni)	2021/06/29		94	%	80 - 120
				Total Phosphorus (P)	2021/06/29		97	%	80 - 120
				Total Potassium (K)	2021/06/29		94	%	80 - 120
				Total Selenium (Se)	2021/06/29		90	%	80 - 120
				Total Silver (Ag)	2021/06/29		95	%	80 - 120
				Total Sodium (Na)	2021/06/29		91	%	80 - 120
				Total Strontium (Sr)	2021/06/29		95	%	80 - 120
				Total Thallium (Tl)	2021/06/29		98	%	80 - 120
				Total Tin (Sn)	2021/06/29		98	%	80 - 120
				Total Titanium (Ti)	2021/06/29		91	%	80 - 120
				Total Uranium (U)	2021/06/29		103	%	80 - 120
				Total Vanadium (V)	2021/06/29		96	%	80 - 120
				Total Zinc (Zn)	2021/06/29		95	%	80 - 120
7432501	BAN	Method Blank		Total Aluminum (Al)	2021/06/29	<0.0050		mg/L	
				Total Antimony (Sb)	2021/06/29	<0.0010		mg/L	
				Total Arsenic (As)	2021/06/29	<0.0010		mg/L	
				Total Barium (Ba)	2021/06/29	<0.0010		mg/L	
				Total Beryllium (Be)	2021/06/29	<0.0010		mg/L	
				Total Bismuth (Bi)	2021/06/29	<0.0020		mg/L	
				Total Boron (B)	2021/06/29	<0.050		mg/L	
				Total Cadmium (Cd)	2021/06/29	<0.000010		mg/L	
				Total Calcium (Ca)	2021/06/29	<0.10		mg/L	
				Total Chromium (Cr)	2021/06/29	<0.0010		mg/L	
				Total Cobalt (Co)	2021/06/29	<0.00040		mg/L	
				Total Copper (Cu)	2021/06/29	<0.00050		mg/L	

BV Labs - Partial/Rush Results



BV Labs Job #: C1H1659
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
Sampler Initials: PB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Iron (Fe)	2021/06/29	<0.050		mg/L	
			Total Lead (Pb)	2021/06/29	<0.00050		mg/L	
			Total Magnesium (Mg)	2021/06/29	<0.10		mg/L	
			Total Manganese (Mn)	2021/06/29	<0.0020		mg/L	
			Total Molybdenum (Mo)	2021/06/29	<0.0020		mg/L	
			Total Nickel (Ni)	2021/06/29	<0.0020		mg/L	
			Total Phosphorus (P)	2021/06/29	<0.10		mg/L	
			Total Potassium (K)	2021/06/29	<0.10		mg/L	
			Total Selenium (Se)	2021/06/29	<0.00050		mg/L	
			Total Silver (Ag)	2021/06/29	<0.00010		mg/L	
			Total Sodium (Na)	2021/06/29	<0.10		mg/L	
			Total Strontium (Sr)	2021/06/29	<0.0020		mg/L	
			Total Thallium (Tl)	2021/06/29	<0.00010		mg/L	
			Total Tin (Sn)	2021/06/29	<0.0020		mg/L	
			Total Titanium (Ti)	2021/06/29	<0.0020		mg/L	
			Total Uranium (U)	2021/06/29	<0.00010		mg/L	
			Total Vanadium (V)	2021/06/29	<0.0020		mg/L	
			Total Zinc (Zn)	2021/06/29	<0.0050		mg/L	
7432501	BAN	RPD	Total Aluminum (Al)	2021/06/29	15		%	20
			Total Iron (Fe)	2021/06/29	3.7		%	20
			Total Manganese (Mn)	2021/06/29	3.5		%	20
7432624	SHW	Spiked Blank	Conductivity	2021/06/28		101	%	80 - 120
7432624	SHW	Method Blank	Conductivity	2021/06/28	<1.0		uS/cm	
7432624	SHW	RPD	Conductivity	2021/06/28	1.4		%	10
7432625	SHW	Spiked Blank	pH	2021/06/28		100	%	97 - 103
7432625	SHW	RPD	pH	2021/06/28	0.063		%	N/A
7432675	NGI	Matrix Spike [PXC315-04]	Total Organic Carbon (C)	2021/06/29		104	%	85 - 115
7432675	NGI	Spiked Blank	Total Organic Carbon (C)	2021/06/29		99	%	80 - 120
7432675	NGI	Method Blank	Total Organic Carbon (C)	2021/06/29	<0.50		mg/L	
7432675	NGI	RPD [PXC315-04]	Total Organic Carbon (C)	2021/06/29	4.8		%	15
7432796	BAN	Matrix Spike	Dissolved Aluminum (Al)	2021/06/29		105	%	80 - 120
			Dissolved Antimony (Sb)	2021/06/29		105	%	80 - 120
			Dissolved Arsenic (As)	2021/06/29		97	%	80 - 120
			Dissolved Barium (Ba)	2021/06/29		104	%	80 - 120
			Dissolved Beryllium (Be)	2021/06/29		106	%	80 - 120
			Dissolved Bismuth (Bi)	2021/06/29		91	%	80 - 120
			Dissolved Boron (B)	2021/06/29		NC	%	80 - 120
			Dissolved Cadmium (Cd)	2021/06/29		96	%	80 - 120
			Dissolved Calcium (Ca)	2021/06/29		NC	%	80 - 120
			Dissolved Chromium (Cr)	2021/06/29		100	%	80 - 120
			Dissolved Cobalt (Co)	2021/06/29		99	%	80 - 120
			Dissolved Copper (Cu)	2021/06/29		92	%	80 - 120
			Dissolved Iron (Fe)	2021/06/29		NC	%	80 - 120
			Dissolved Lead (Pb)	2021/06/29		97	%	80 - 120
			Dissolved Magnesium (Mg)	2021/06/29		NC	%	80 - 120
			Dissolved Manganese (Mn)	2021/06/29		100	%	80 - 120
			Dissolved Molybdenum (Mo)	2021/06/29		108	%	80 - 120
			Dissolved Nickel (Ni)	2021/06/29		96	%	80 - 120
			Dissolved Phosphorus (P)	2021/06/29		105	%	80 - 120
			Dissolved Potassium (K)	2021/06/29		NC	%	80 - 120
			Dissolved Selenium (Se)	2021/06/29		97	%	80 - 120
			Dissolved Silver (Ag)	2021/06/29		93	%	80 - 120
			Dissolved Sodium (Na)	2021/06/29		NC	%	80 - 120

BV Labs - Partial/Rush Results



BV Labs Job #: C1H1659
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
Sampler Initials: PB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7432796	BAN	Spiked Blank		Dissolved Strontium (Sr)	2021/06/29		NC	%	80 - 120
				Dissolved Thallium (Tl)	2021/06/29		97	%	80 - 120
				Dissolved Tin (Sn)	2021/06/29		100	%	80 - 120
				Dissolved Titanium (Ti)	2021/06/29		104	%	80 - 120
				Dissolved Uranium (U)	2021/06/29		99	%	80 - 120
				Dissolved Vanadium (V)	2021/06/29		109	%	80 - 120
				Dissolved Zinc (Zn)	2021/06/29		93	%	80 - 120
				Dissolved Aluminum (Al)	2021/06/28		102	%	80 - 120
				Dissolved Antimony (Sb)	2021/06/28		102	%	80 - 120
				Dissolved Arsenic (As)	2021/06/28		94	%	80 - 120
				Dissolved Barium (Ba)	2021/06/28		98	%	80 - 120
				Dissolved Beryllium (Be)	2021/06/28		93	%	80 - 120
				Dissolved Bismuth (Bi)	2021/06/28		101	%	80 - 120
				Dissolved Boron (B)	2021/06/28		91	%	80 - 120
				Dissolved Cadmium (Cd)	2021/06/28		98	%	80 - 120
				Dissolved Calcium (Ca)	2021/06/28		101	%	80 - 120
				Dissolved Chromium (Cr)	2021/06/28		96	%	80 - 120
				Dissolved Cobalt (Co)	2021/06/28		97	%	80 - 120
				Dissolved Copper (Cu)	2021/06/28		97	%	80 - 120
				Dissolved Iron (Fe)	2021/06/28		102	%	80 - 120
				Dissolved Lead (Pb)	2021/06/28		101	%	80 - 120
				Dissolved Magnesium (Mg)	2021/06/28		103	%	80 - 120
				Dissolved Manganese (Mn)	2021/06/28		100	%	80 - 120
				Dissolved Molybdenum (Mo)	2021/06/28		100	%	80 - 120
				Dissolved Nickel (Ni)	2021/06/28		98	%	80 - 120
				Dissolved Phosphorus (P)	2021/06/28		103	%	80 - 120
				Dissolved Potassium (K)	2021/06/28		99	%	80 - 120
				Dissolved Selenium (Se)	2021/06/28		95	%	80 - 120
				Dissolved Silver (Ag)	2021/06/28		97	%	80 - 120
				Dissolved Sodium (Na)	2021/06/28		99	%	80 - 120
				Dissolved Strontium (Sr)	2021/06/28		99	%	80 - 120
				Dissolved Thallium (Tl)	2021/06/28		102	%	80 - 120
				Dissolved Tin (Sn)	2021/06/28		102	%	80 - 120
				Dissolved Titanium (Ti)	2021/06/28		100	%	80 - 120
				Dissolved Uranium (U)	2021/06/28		104	%	80 - 120
				Dissolved Vanadium (V)	2021/06/28		98	%	80 - 120
				Dissolved Zinc (Zn)	2021/06/28		100	%	80 - 120
7432796	BAN	Method Blank		Dissolved Aluminum (Al)	2021/06/28	<5.0		ug/L	
				Dissolved Antimony (Sb)	2021/06/28	<1.0		ug/L	
				Dissolved Arsenic (As)	2021/06/28	<1.0		ug/L	
				Dissolved Barium (Ba)	2021/06/28	<1.0		ug/L	
				Dissolved Beryllium (Be)	2021/06/28	<1.0		ug/L	
				Dissolved Bismuth (Bi)	2021/06/28	<2.0		ug/L	
				Dissolved Boron (B)	2021/06/28	<50		ug/L	
				Dissolved Cadmium (Cd)	2021/06/28	<0.010		ug/L	
				Dissolved Calcium (Ca)	2021/06/28	<100		ug/L	
				Dissolved Chromium (Cr)	2021/06/28	<1.0		ug/L	
				Dissolved Cobalt (Co)	2021/06/28	<0.40		ug/L	
				Dissolved Copper (Cu)	2021/06/28	<0.50		ug/L	
				Dissolved Iron (Fe)	2021/06/28	<50		ug/L	
				Dissolved Lead (Pb)	2021/06/28	<0.50		ug/L	
				Dissolved Magnesium (Mg)	2021/06/28	<100		ug/L	
				Dissolved Manganese (Mn)	2021/06/28	<2.0		ug/L	



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Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
Sampler Initials: PB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7432796	BAN	RPD	Dissolved Molybdenum (Mo)	2021/06/28	<2.0		ug/L	
			Dissolved Nickel (Ni)	2021/06/28	<2.0		ug/L	
			Dissolved Phosphorus (P)	2021/06/28	<100		ug/L	
			Dissolved Potassium (K)	2021/06/28	<100		ug/L	
			Dissolved Selenium (Se)	2021/06/28	<0.50		ug/L	
			Dissolved Silver (Ag)	2021/06/28	<0.10		ug/L	
			Dissolved Sodium (Na)	2021/06/28	<100		ug/L	
			Dissolved Strontium (Sr)	2021/06/28	<2.0		ug/L	
			Dissolved Thallium (Tl)	2021/06/28	<0.10		ug/L	
			Dissolved Tin (Sn)	2021/06/28	<2.0		ug/L	
			Dissolved Titanium (Ti)	2021/06/28	<2.0		ug/L	
			Dissolved Uranium (U)	2021/06/28	<0.10		ug/L	
			Dissolved Vanadium (V)	2021/06/28	<2.0		ug/L	
			Dissolved Zinc (Zn)	2021/06/28	<5.0		ug/L	
			Dissolved Aluminum (Al)	2021/06/29	NC		%	20
			Dissolved Antimony (Sb)	2021/06/29	NC		%	20
			Dissolved Arsenic (As)	2021/06/29	NC		%	20
			Dissolved Barium (Ba)	2021/06/29	3.0		%	20
			Dissolved Beryllium (Be)	2021/06/29	NC		%	20
			Dissolved Bismuth (Bi)	2021/06/29	NC		%	20
			Dissolved Boron (B)	2021/06/29	1.9		%	20
			Dissolved Cadmium (Cd)	2021/06/29	NC		%	20
			Dissolved Calcium (Ca)	2021/06/29	0.33		%	20
			Dissolved Chromium (Cr)	2021/06/29	NC		%	20
			Dissolved Cobalt (Co)	2021/06/29	NC		%	20
			Dissolved Copper (Cu)	2021/06/29	NC		%	20
			Dissolved Iron (Fe)	2021/06/29	1.9		%	20
			Dissolved Lead (Pb)	2021/06/29	NC		%	20
			Dissolved Magnesium (Mg)	2021/06/29	1.5		%	20
			Dissolved Manganese (Mn)	2021/06/29	3.2		%	20
			Dissolved Molybdenum (Mo)	2021/06/29	NC		%	20
			Dissolved Nickel (Ni)	2021/06/29	NC		%	20
			Dissolved Phosphorus (P)	2021/06/29	NC		%	20
			Dissolved Potassium (K)	2021/06/29	1.2		%	20
			Dissolved Selenium (Se)	2021/06/29	NC		%	20
			Dissolved Silver (Ag)	2021/06/29	NC		%	20
			Dissolved Sodium (Na)	2021/06/29	0.49		%	20
			Dissolved Strontium (Sr)	2021/06/29	1.6		%	20
			Dissolved Thallium (Tl)	2021/06/29	NC		%	20
			Dissolved Tin (Sn)	2021/06/29	NC		%	20
			Dissolved Titanium (Ti)	2021/06/29	NC		%	20
			Dissolved Uranium (U)	2021/06/29	3.3		%	20
			Dissolved Vanadium (V)	2021/06/29	NC		%	20
			Dissolved Zinc (Zn)	2021/06/29	NC		%	20
7432836	EMT	Matrix Spike [PXC319-01]	Total Alkalinity (Total as CaCO3)	2021/06/30		92	%	80 - 120
7432836	EMT	Spiked Blank	Total Alkalinity (Total as CaCO3)	2021/06/29		104	%	80 - 120
7432836	EMT	Method Blank	Total Alkalinity (Total as CaCO3)	2021/06/29	<5.0		mg/L	
7432836	EMT	RPD [PXC319-01]	Total Alkalinity (Total as CaCO3)	2021/06/29	NC		%	20
7432839	EMT	Matrix Spike [PXC319-01]	Dissolved Chloride (Cl-)	2021/06/29		101	%	80 - 120
7432839	EMT	Spiked Blank	Dissolved Chloride (Cl-)	2021/06/29		100	%	80 - 120
7432839	EMT	Method Blank	Dissolved Chloride (Cl-)	2021/06/29	<1.0		mg/L	
7432839	EMT	RPD [PXC319-01]	Dissolved Chloride (Cl-)	2021/06/29	11		%	20
7432840	EMT	Matrix Spike [PXC319-01]	Dissolved Sulphate (SO4)	2021/06/29		112	%	80 - 120

BV Labs - Partial/Rush Results



BV Labs Job #: C1H1659
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Anaconda Mining Inc
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Your P.O. #: 2021- 0267
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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7432840	EMT		Spiked Blank	Dissolved Sulphate (SO4)	2021/06/29		111	%	80 - 120
7432840	EMT		Method Blank	Dissolved Sulphate (SO4)	2021/06/29	<2.0		mg/L	
7432840	EMT		RPD [PXC319-01]	Dissolved Sulphate (SO4)	2021/06/29	NC		%	20
7432842	EMT		Matrix Spike [PXC319-01]	Reactive Silica (SiO2)	2021/06/29		90	%	80 - 120
7432842	EMT		Spiked Blank	Reactive Silica (SiO2)	2021/06/29		99	%	80 - 120
7432842	EMT		Method Blank	Reactive Silica (SiO2)	2021/06/29	<0.50		mg/L	
7432842	EMT		RPD [PXC319-01]	Reactive Silica (SiO2)	2021/06/29	3.7		%	20
7432844	EMT		Spiked Blank	Colour	2021/06/29		98	%	80 - 120
7432844	EMT		Method Blank	Colour	2021/06/29	<5.0		TCU	
7432844	EMT		RPD [PXC319-01]	Colour	2021/06/29	0.49		%	20
7432846	EMT		Matrix Spike [PXC319-01]	Orthophosphate (P)	2021/06/29		71 (1)	%	80 - 120
7432846	EMT		Spiked Blank	Orthophosphate (P)	2021/06/29		89	%	80 - 120
7432846	EMT		Method Blank	Orthophosphate (P)	2021/06/29	<0.010		mg/L	
7432846	EMT		RPD [PXC319-01]	Orthophosphate (P)	2021/06/29	NC		%	20
7432847	EMT		Matrix Spike [PXC319-01]	Nitrate + Nitrite (N)	2021/06/29		84	%	80 - 120
7432847	EMT		Spiked Blank	Nitrate + Nitrite (N)	2021/06/29		92	%	80 - 120
7432847	EMT		Method Blank	Nitrate + Nitrite (N)	2021/06/29	<0.050		mg/L	
7432847	EMT		RPD [PXC319-01]	Nitrate + Nitrite (N)	2021/06/29	7.7		%	20
7432848	EMT		Matrix Spike [PXC319-01]	Nitrite (N)	2021/06/29		100	%	80 - 120
7432848	EMT		Spiked Blank	Nitrite (N)	2021/06/29		109	%	80 - 120
7432848	EMT		Method Blank	Nitrite (N)	2021/06/29	<0.010		mg/L	
7432848	EMT		RPD [PXC319-01]	Nitrite (N)	2021/06/29	NC		%	20
7432924	NHU		Matrix Spike [PXC311-09]	Total Mercury (Hg)	2021/06/29		102	%	80 - 120
7432924	NHU		Spiked Blank	Total Mercury (Hg)	2021/06/29		101	%	80 - 120
7432924	NHU		Method Blank	Total Mercury (Hg)	2021/06/29	<0.013		ug/L	
7432924	NHU		RPD [PXC276-09]	Total Mercury (Hg)	2021/06/29	2.5		%	20
7432943	NHU		Matrix Spike	Dissolved Mercury (Hg)	2021/06/29		103	%	80 - 120
7432943	NHU		Spiked Blank	Dissolved Mercury (Hg)	2021/06/29		102	%	80 - 120
7432943	NHU		Method Blank	Dissolved Mercury (Hg)	2021/06/29	<0.013		ug/L	
7432943	NHU		RPD	Dissolved Mercury (Hg)	2021/06/29	NC		%	20
7434894	SHW		Spiked Blank	Conductivity	2021/06/29		102	%	80 - 120
7434894	SHW		Method Blank	Conductivity	2021/06/29	<1.0		uS/cm	
7434894	SHW		RPD [PXC318-01]	Conductivity	2021/06/29	0.81		%	10
7434898	SHW		Spiked Blank	pH	2021/06/29		100	%	97 - 103
7434898	SHW		RPD [PXC318-01]	pH	2021/06/29	2.1		%	N/A
7434940	NGI		Matrix Spike	Total Organic Carbon (C)	2021/06/30		100	%	85 - 115
7434940	NGI		Spiked Blank	Total Organic Carbon (C)	2021/06/30		104	%	80 - 120
7434940	NGI		Method Blank	Total Organic Carbon (C)	2021/06/30	<0.50		mg/L	
7434940	NGI		RPD	Total Organic Carbon (C)	2021/06/30	NC		%	15
7434943	NGI		Matrix Spike	Total Organic Carbon (C)	2021/06/30		98	%	85 - 115
7434943	NGI		Spiked Blank	Total Organic Carbon (C)	2021/06/30		103	%	80 - 120
7434943	NGI		Method Blank	Total Organic Carbon (C)	2021/06/30	<0.50		mg/L	
7434943	NGI		RPD	Total Organic Carbon (C)	2021/06/30	4.5		%	15
7434950	NGI		Matrix Spike	Total Organic Carbon (C)	2021/06/30		101	%	85 - 115
7434950	NGI		Spiked Blank	Total Organic Carbon (C)	2021/06/30		105	%	80 - 120
7434950	NGI		Method Blank	Total Organic Carbon (C)	2021/06/30	<0.50		mg/L	



BV Labs Job #: C1H1659
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
Sampler Initials: PB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC		QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
Batch	Init							
7434950	NGI	RPD	Total Organic Carbon (C)	2021/06/30	1.7		%	15
N/A = Not Applicable								
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.								
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.								
QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.								
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.								
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.								
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)								
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).								
(1) Poor spike recovery due to probable sample matrix interference.								



BV Labs Job #: C1H1659
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 2021- 0267
Sampler Initials: PB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Colleen Acker, B.Sc, Scientific Service Specialist

Eric Dearman, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
For Service Group specific validation please refer to the Validation Signature Page.

BV Labs - Partial/Rush Results



DALHOUSIE
UNIVERSITY

Inspiring Minds

Department of Oceanography
1355 Oxford St
Halifax, NS
B3H 4R2

Determination of chlorophyll a by fluorescence

Client: Bureau Veritas Laboratories, 200 Bluewater Road, Bedford, NS, B4B 1G9

Attention: Melissa DiPinto

Received: 2021-06-23

Project #: C1H1659

Completed: 2021-06-29

Hugh MacIntyre

Hugh MacIntyre, Ph.D.

Chl *a* (chlorophyll *a* ; $\mu\text{g L}^{-1}$) determined by the acidification method (Holm-Hansen et al., 1965). Estimates made with the non-acidification method (Welschmeyer, 1994) are shown for comparison.

The non-acidification method is considered more reliable than the acidification method in correcting for bias due to the contributions of chlorophyll *b* and chlorophyll degradation products.

Holm-Hansen O, Lorenzen CJ, Holmes RW, Strickland JDH (1965) Fluorometric determination of chlorophyll.

J Conseil 30:3-15

Welschmeyer NA (1994) Fluorometric analysis of chlorophyll *a* in the presence of chlorophyll *b* and phaeopigments.

Limnol Oceanogr 39:1985-1992

Contractor ID	Client ID	Chl a (acidification)	Chl a (non-acidification)
PXC276-07R	SW-11-21	9.88	13
PXC311-07R	SW-12-21	1.23	1.5
PXC312-07R	SW-13-21	4.49	4.94
PXC313-07R	SW-14-21	2.04	2.58
PXC314-07R	SW-15-21	1.69	1.9
PXC315-07R	SW-17-21	1.62	2.37
PXC316-07R	SW-18-21	2.08	2.37
PXC317-07R	SW-19-21	11.9	15.6
PXC318-07R	SW-20-21	1.8	2.66

Contractor ID	Client ID	Chl a (acidification)	Chl a (non-acidification)
PXC319-07R	SWDUPA	2.17	2.43



Your P.O. #: 0202
Your Project #: GOLDBORO
Your C.O.C. #: n/a

Attention: Derek Bullock

Anaconda Mining Inc
Goldboro Gold Mine
570 Goldbrook Road
Goldboro, NS
Canada BOH 1L0

Report Date: 2021/07/08
Report #: R6710302
Version: 1 - Partial

CERTIFICATE OF ANALYSIS – PARTIAL RESULTS

BV LABS JOB #: C1H4100

Received: 2021/06/23, 16:28

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Carbonate, Bicarbonate and Hydroxide	1	N/A	2021/06/29	N/A	SM 23 4500-CO2 D
Alkalinity	1	N/A	2021/06/29	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	1	N/A	2021/06/29	ATL SOP 00014	SM 23 4500-Cl- E m
Colour	1	N/A	2021/06/29	ATL SOP 00020	SM 23 2120C m
Organic carbon - Diss (DOC) (2)	1	N/A	2021/06/29	ATL SOP 00203	SM 23 5310B m
Conductance - water	1	N/A	2021/06/29	ATL SOP 00004	SM 23 2510B m
Hardness (calculated as CaCO3)	1	N/A	2021/06/30	ATL SOP 00048	Auto Calc
Mercury - Dissolved (CVAA,LL)	1	2021/06/29	2021/06/29	ATL SOP 00026	EPA 245.1 R3 m
Mercury - Total (CVAA,LL)	1	2021/06/29	2021/06/29	ATL SOP 00026	EPA 245.1 R3 m
Metals Water Diss. MS (as rec'd)	1	N/A	2021/06/29	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	1	2021/06/29	2021/06/30	ATL SOP 00058	EPA 6020B R2 m
Ion Balance (% Difference)	1	N/A	2021/06/30	N/A	Auto Calc.
Anion and Cation Sum	1	N/A	2021/06/30	N/A	Auto Calc.
Nitrogen Ammonia - water	1	N/A	2021/06/29	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	1	N/A	2021/06/29	ATL SOP 00016	USGS I-2547-11m
Nitrogen - Nitrite	1	N/A	2021/06/29	ATL SOP 00017	SM 23 4500-NO2- B m
Nitrogen - Nitrate (as N)	1	N/A	2021/06/30	ATL SOP 00018	ASTM D3867-16
pH (3)	1	N/A	2021/06/29	ATL SOP 00003	SM 23 4500-H+ B m
Phosphorus - ortho	1	N/A	2021/06/29	ATL SOP 00021	SM 23 4500-P E m
Sat. pH and Langelier Index (@ 20C)	1	N/A	2021/06/30	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	1	N/A	2021/06/30	ATL SOP 00049	Auto Calc.
Reactive Silica	1	N/A	2021/06/29	ATL SOP 00022	EPA 366.0 m
Sulphate	1	N/A	2021/06/29	ATL SOP 00023	ASTM D516-16 m
Chlorophyll A (Sub from Bedford) (1)	1	2021/06/28	2021/06/30		
Total Dissolved Solids (TDS calc)	1	N/A	2021/06/30	N/A	Auto Calc.
Organic carbon - Total (TOC) (2)	1	N/A	2021/06/30	ATL SOP 00203	SM 23 5310B m
Turbidity	1	N/A	2021/06/28	ATL SOP 00011	EPA 180.1 R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.



Your P.O. #: 0202
 Your Project #: GOLDBORO
 Your C.O.C. #: n/a

Attention: Derek Bullock

Anaconda Mining Inc
 Goldboro Gold Mine
 570 Goldbrook Road
 Goldboro, NS
 Canada BOH 1L0

Report Date: 2021/07/08
 Report #: R6710302
 Version: 1 - Partial

CERTIFICATE OF ANALYSIS – PARTIAL RESULTS

BV LABS JOB #: C1H4100

Received: 2021/06/23, 16:28

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Dalhousie Dept of Oceanography

(2) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

(3) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

Encryption Key

Tyler Travers
 Project Manager Assistant
 08 Jul 2021 16:10:42

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Melissa DiPinto, Project Manager

Email: Melissa.DIPINTO@bureauveritas.com

Phone# (902)420-0203 Ext:233

=====

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BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

BV Labs Partial/Rush Results



BV Labs Job #: C1H4100
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0202
Sampler Initials: DB

RESULTS OF ANALYSES OF WATER

BV Labs ID		PXP275		
Sampling Date		2021/06/21 15:30		
COC Number		n/a		
	UNITS	SW-16-21	RDL	QC Batch
Calculated Parameters				
Anion Sum	me/L	0.160	N/A	7426615
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7426611
Calculated TDS	mg/L	16	1.0	7426626
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7426611
Cation Sum	me/L	0.260	N/A	7426615
Hardness (CaCO ₃)	mg/L	3.5	1.0	7426613
Ion Balance (% Difference)	%	23.8	N/A	7426614
Langelier Index (@ 20C)	N/A	NC		7426622
Langelier Index (@ 4C)	N/A	NC		7426623
Nitrate (N)	mg/L	<0.050	0.050	7426619
Saturation pH (@ 20C)	N/A	NC		7426622
Saturation pH (@ 4C)	N/A	NC		7426623
Inorganics				
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7432809
Dissolved Chloride (Cl ⁻)	mg/L	5.5	1.0	7432818
Colour	TCU	190	25	7432829
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7432832
Nitrite (N)	mg/L	<0.010	0.010	7432833
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7434915
Dissolved Organic Carbon (C)	mg/L	15	0.50	7434932
Total Organic Carbon (C)	mg/L	16	0.50	7437681
Orthophosphate (P)	mg/L	<0.010	0.010	7432830
pH	pH	5.41		7434901
Reactive Silica (SiO ₂)	mg/L	4.3	0.50	7432820
Dissolved Sulphate (SO ₄)	mg/L	<2.0	2.0	7432819
Turbidity	NTU	1.9	0.10	7432881
Conductivity	uS/cm	32	1.0	7434900
Subcontracted Analysis				
Subcontract Parameter	N/A	ATTACHED	N/A	7434318
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable				



BV Labs Job #: C1H4100
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0202
Sampler Initials: DB

MERCURY BY COLD VAPOUR AA (WATER)

BV Labs ID		PXP275		
Sampling Date		2021/06/21 15:30		
COC Number		n/a		
	UNITS	SW-16-21	RDL	QC Batch
Metals				
Dissolved Mercury (Hg)	ug/L	<0.013	0.013	7432943
Total Mercury (Hg)	ug/L	<0.013	0.013	7432931
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				

BV Labs - Partial/Rush Results



BV Labs Job #: C1H4100
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0202
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PXP275		
Sampling Date		2021/06/21 15:30		
COC Number		n/a		
	UNITS	SW-16-21	RDL	QC Batch
Metals				
Dissolved Aluminum (Al)	ug/L	340	5.0	7432796
Total Aluminum (Al)	mg/L	0.313	0.0050	7434814
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	7432796
Total Antimony (Sb)	mg/L	<0.0010	0.0010	7434814
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7432796
Total Arsenic (As)	mg/L	<0.0010	0.0010	7434814
Dissolved Barium (Ba)	ug/L	2.2	1.0	7432796
Total Barium (Ba)	mg/L	0.0029	0.0010	7434814
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	7432796
Total Beryllium (Be)	mg/L	<0.0010	0.0010	7434814
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	7432796
Total Bismuth (Bi)	mg/L	<0.0020	0.0020	7434814
Dissolved Boron (B)	ug/L	<50	50	7432796
Total Boron (B)	mg/L	<0.050	0.050	7434814
Dissolved Cadmium (Cd)	ug/L	0.015	0.010	7432796
Total Cadmium (Cd)	mg/L	0.000012	0.000010	7434814
Dissolved Calcium (Ca)	ug/L	700	100	7432796
Total Calcium (Ca)	mg/L	0.69	0.10	7434814
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	7432796
Total Chromium (Cr)	mg/L	<0.0010	0.0010	7434814
Dissolved Cobalt (Co)	ug/L	<0.40	0.40	7432796
Total Cobalt (Co)	mg/L	<0.00040	0.00040	7434814
Dissolved Copper (Cu)	ug/L	<0.50	0.50	7432796
Total Copper (Cu)	mg/L	<0.00050	0.00050	7434814
Dissolved Iron (Fe)	ug/L	310	50	7432796
Total Iron (Fe)	mg/L	0.326	0.050	7434814
Dissolved Lead (Pb)	ug/L	0.59	0.50	7432796
Total Lead (Pb)	mg/L	0.00062	0.00050	7434814
Dissolved Magnesium (Mg)	ug/L	420	100	7432796
Total Magnesium (Mg)	mg/L	0.41	0.10	7434814
Dissolved Manganese (Mn)	ug/L	9.6	2.0	7432796
Total Manganese (Mn)	mg/L	0.0097	0.0020	7434814
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	7432796
Total Molybdenum (Mo)	mg/L	<0.0020	0.0020	7434814
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: C1H4100
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0202
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		PXP275		
Sampling Date		2021/06/21 15:30		
COC Number		n/a		
	UNITS	SW-16-21	RDL	QC Batch
Dissolved Nickel (Ni)	ug/L	<2.0	2.0	7432796
Total Nickel (Ni)	mg/L	<0.0020	0.0020	7434814
Dissolved Phosphorus (P)	ug/L	<100	100	7432796
Total Phosphorus (P)	mg/L	<0.10	0.10	7434814
Dissolved Potassium (K)	ug/L	340	100	7432796
Total Potassium (K)	mg/L	0.29	0.10	7434814
Dissolved Selenium (Se)	ug/L	<0.50	0.50	7432796
Total Selenium (Se)	mg/L	<0.00050	0.00050	7434814
Dissolved Silver (Ag)	ug/L	<0.10	0.10	7432796
Total Silver (Ag)	mg/L	<0.00010	0.00010	7434814
Dissolved Sodium (Na)	ug/L	3900	100	7432796
Total Sodium (Na)	mg/L	3.90	0.10	7434814
Dissolved Strontium (Sr)	ug/L	7.4	2.0	7432796
Total Strontium (Sr)	mg/L	0.0076	0.0020	7434814
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	7432796
Total Thallium (Tl)	mg/L	<0.00010	0.00010	7434814
Dissolved Tin (Sn)	ug/L	<2.0	2.0	7432796
Total Tin (Sn)	mg/L	<0.0020	0.0020	7434814
Dissolved Titanium (Ti)	ug/L	2.9	2.0	7432796
Total Titanium (Ti)	mg/L	0.0044	0.0020	7434814
Dissolved Uranium (U)	ug/L	<0.10	0.10	7432796
Total Uranium (U)	mg/L	<0.00010	0.00010	7434814
Dissolved Vanadium (V)	ug/L	<2.0	2.0	7432796
Total Vanadium (V)	mg/L	<0.0020	0.0020	7434814
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7432796
Total Zinc (Zn)	mg/L	<0.0050	0.0050	7434814
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BV Labs Job #: C1H4100
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0202
Sampler Initials: DB

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.0°C
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Sample PXP275 [SW-16-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Results relate only to the items tested.

BV Labs - Partial/Rush Results



BV Labs Job #: C1H4100
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0202
Sampler Initials: DB

QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7432796	BAN	Matrix Spike	Dissolved Aluminum (Al)	2021/06/29	105	%	80 - 120		
			Dissolved Antimony (Sb)	2021/06/29	105	%	80 - 120		
			Dissolved Arsenic (As)	2021/06/29	97	%	80 - 120		
			Dissolved Barium (Ba)	2021/06/29	104	%	80 - 120		
			Dissolved Beryllium (Be)	2021/06/29	106	%	80 - 120		
			Dissolved Bismuth (Bi)	2021/06/29	91	%	80 - 120		
			Dissolved Boron (B)	2021/06/29	NC	%	80 - 120		
			Dissolved Cadmium (Cd)	2021/06/29	96	%	80 - 120		
			Dissolved Calcium (Ca)	2021/06/29	NC	%	80 - 120		
			Dissolved Chromium (Cr)	2021/06/29	100	%	80 - 120		
			Dissolved Cobalt (Co)	2021/06/29	99	%	80 - 120		
			Dissolved Copper (Cu)	2021/06/29	92	%	80 - 120		
			Dissolved Iron (Fe)	2021/06/29	NC	%	80 - 120		
			Dissolved Lead (Pb)	2021/06/29	97	%	80 - 120		
			Dissolved Magnesium (Mg)	2021/06/29	NC	%	80 - 120		
			Dissolved Manganese (Mn)	2021/06/29	100	%	80 - 120		
			Dissolved Molybdenum (Mo)	2021/06/29	108	%	80 - 120		
			Dissolved Nickel (Ni)	2021/06/29	96	%	80 - 120		
			Dissolved Phosphorus (P)	2021/06/29	105	%	80 - 120		
			Dissolved Potassium (K)	2021/06/29	NC	%	80 - 120		
			Dissolved Selenium (Se)	2021/06/29	97	%	80 - 120		
			Dissolved Silver (Ag)	2021/06/29	93	%	80 - 120		
			Dissolved Sodium (Na)	2021/06/29	NC	%	80 - 120		
			Dissolved Strontium (Sr)	2021/06/29	NC	%	80 - 120		
			Dissolved Thallium (Tl)	2021/06/29	97	%	80 - 120		
			Dissolved Tin (Sn)	2021/06/29	100	%	80 - 120		
			Dissolved Titanium (Ti)	2021/06/29	104	%	80 - 120		
			Dissolved Uranium (U)	2021/06/29	99	%	80 - 120		
			Dissolved Vanadium (V)	2021/06/29	109	%	80 - 120		
			Dissolved Zinc (Zn)	2021/06/29	93	%	80 - 120		
7432796	BAN	Spiked Blank	Dissolved Aluminum (Al)	2021/06/28	102	%	80 - 120		
			Dissolved Antimony (Sb)	2021/06/28	102	%	80 - 120		
			Dissolved Arsenic (As)	2021/06/28	94	%	80 - 120		
			Dissolved Barium (Ba)	2021/06/28	98	%	80 - 120		
			Dissolved Beryllium (Be)	2021/06/28	93	%	80 - 120		
			Dissolved Bismuth (Bi)	2021/06/28	101	%	80 - 120		
			Dissolved Boron (B)	2021/06/28	91	%	80 - 120		
			Dissolved Cadmium (Cd)	2021/06/28	98	%	80 - 120		
			Dissolved Calcium (Ca)	2021/06/28	101	%	80 - 120		
			Dissolved Chromium (Cr)	2021/06/28	96	%	80 - 120		
			Dissolved Cobalt (Co)	2021/06/28	97	%	80 - 120		
			Dissolved Copper (Cu)	2021/06/28	97	%	80 - 120		
			Dissolved Iron (Fe)	2021/06/28	102	%	80 - 120		
			Dissolved Lead (Pb)	2021/06/28	101	%	80 - 120		
			Dissolved Magnesium (Mg)	2021/06/28	103	%	80 - 120		
			Dissolved Manganese (Mn)	2021/06/28	100	%	80 - 120		
			Dissolved Molybdenum (Mo)	2021/06/28	100	%	80 - 120		
			Dissolved Nickel (Ni)	2021/06/28	98	%	80 - 120		
			Dissolved Phosphorus (P)	2021/06/28	103	%	80 - 120		
			Dissolved Potassium (K)	2021/06/28	99	%	80 - 120		
			Dissolved Selenium (Se)	2021/06/28	95	%	80 - 120		
			Dissolved Silver (Ag)	2021/06/28	97	%	80 - 120		
			Dissolved Sodium (Na)	2021/06/28	99	%	80 - 120		

BV Labs - Partial/Rush Results



BV Labs Job #: C1H4100
Report Date: 2021/07/08

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0202
Sampler Initials: DB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7432796	BAN	Method Blank	Dissolved Strontium (Sr)	2021/06/28		99	%	80 - 120
			Dissolved Thallium (Tl)	2021/06/28		102	%	80 - 120
			Dissolved Tin (Sn)	2021/06/28		102	%	80 - 120
			Dissolved Titanium (Ti)	2021/06/28		100	%	80 - 120
			Dissolved Uranium (U)	2021/06/28		104	%	80 - 120
			Dissolved Vanadium (V)	2021/06/28		98	%	80 - 120
			Dissolved Zinc (Zn)	2021/06/28		100	%	80 - 120
			Dissolved Aluminum (Al)	2021/06/28	<5.0		ug/L	
			Dissolved Antimony (Sb)	2021/06/28	<1.0		ug/L	
			Dissolved Arsenic (As)	2021/06/28	<1.0		ug/L	
			Dissolved Barium (Ba)	2021/06/28	<1.0		ug/L	
			Dissolved Beryllium (Be)	2021/06/28	<1.0		ug/L	
			Dissolved Bismuth (Bi)	2021/06/28	<2.0		ug/L	
			Dissolved Boron (B)	2021/06/28	<50		ug/L	
			Dissolved Cadmium (Cd)	2021/06/28	<0.010		ug/L	
			Dissolved Calcium (Ca)	2021/06/28	<100		ug/L	
			Dissolved Chromium (Cr)	2021/06/28	<1.0		ug/L	
			Dissolved Cobalt (Co)	2021/06/28	<0.40		ug/L	
			Dissolved Copper (Cu)	2021/06/28	<0.50		ug/L	
			Dissolved Iron (Fe)	2021/06/28	<50		ug/L	
			Dissolved Lead (Pb)	2021/06/28	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2021/06/28	<100		ug/L	
			Dissolved Manganese (Mn)	2021/06/28	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2021/06/28	<2.0		ug/L	
			Dissolved Nickel (Ni)	2021/06/28	<2.0		ug/L	
			Dissolved Phosphorus (P)	2021/06/28	<100		ug/L	
			Dissolved Potassium (K)	2021/06/28	<100		ug/L	
			Dissolved Selenium (Se)	2021/06/28	<0.50		ug/L	
			Dissolved Silver (Ag)	2021/06/28	<0.10		ug/L	
			Dissolved Sodium (Na)	2021/06/28	<100		ug/L	
			Dissolved Strontium (Sr)	2021/06/28	<2.0		ug/L	
			Dissolved Thallium (Tl)	2021/06/28	<0.10		ug/L	
			Dissolved Tin (Sn)	2021/06/28	<2.0		ug/L	
			Dissolved Titanium (Ti)	2021/06/28	<2.0		ug/L	
			Dissolved Uranium (U)	2021/06/28	<0.10		ug/L	
			Dissolved Vanadium (V)	2021/06/28	<2.0		ug/L	
			Dissolved Zinc (Zn)	2021/06/28	<5.0		ug/L	
7432796	BAN	RPD	Dissolved Aluminum (Al)	2021/06/29	NC		%	20
			Dissolved Antimony (Sb)	2021/06/29	NC		%	20
			Dissolved Arsenic (As)	2021/06/29	NC		%	20
			Dissolved Barium (Ba)	2021/06/29	3.0		%	20
			Dissolved Beryllium (Be)	2021/06/29	NC		%	20
			Dissolved Bismuth (Bi)	2021/06/29	NC		%	20
			Dissolved Boron (B)	2021/06/29	1.9		%	20
			Dissolved Cadmium (Cd)	2021/06/29	NC		%	20
			Dissolved Calcium (Ca)	2021/06/29	0.33		%	20
			Dissolved Chromium (Cr)	2021/06/29	NC		%	20
			Dissolved Cobalt (Co)	2021/06/29	NC		%	20
			Dissolved Copper (Cu)	2021/06/29	NC		%	20
			Dissolved Iron (Fe)	2021/06/29	1.9		%	20
			Dissolved Lead (Pb)	2021/06/29	NC		%	20
			Dissolved Magnesium (Mg)	2021/06/29	1.5		%	20
			Dissolved Manganese (Mn)	2021/06/29	3.2		%	20

BV Labs - Partial/Rush Results



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Molybdenum (Mo)	2021/06/29	NC		%	20
			Dissolved Nickel (Ni)	2021/06/29	NC		%	20
			Dissolved Phosphorus (P)	2021/06/29	NC		%	20
			Dissolved Potassium (K)	2021/06/29	1.2		%	20
			Dissolved Selenium (Se)	2021/06/29	NC		%	20
			Dissolved Silver (Ag)	2021/06/29	NC		%	20
			Dissolved Sodium (Na)	2021/06/29	0.49		%	20
			Dissolved Strontium (Sr)	2021/06/29	1.6		%	20
			Dissolved Thallium (Tl)	2021/06/29	NC		%	20
			Dissolved Tin (Sn)	2021/06/29	NC		%	20
			Dissolved Titanium (Ti)	2021/06/29	NC		%	20
			Dissolved Uranium (U)	2021/06/29	3.3		%	20
			Dissolved Vanadium (V)	2021/06/29	NC		%	20
			Dissolved Zinc (Zn)	2021/06/29	NC		%	20
7432809	EMT	Matrix Spike	Total Alkalinity (Total as CaCO3)	2021/06/30		NC	%	80 - 120
7432809	EMT	Spiked Blank	Total Alkalinity (Total as CaCO3)	2021/06/29		109	%	80 - 120
7432809	EMT	Method Blank	Total Alkalinity (Total as CaCO3)	2021/06/29	<5.0		mg/L	
7432809	EMT	RPD	Total Alkalinity (Total as CaCO3)	2021/06/30	0.82		%	20
7432818	EMT	Matrix Spike	Dissolved Chloride (Cl-)	2021/06/29		NC	%	80 - 120
7432818	EMT	Spiked Blank	Dissolved Chloride (Cl-)	2021/06/29		98	%	80 - 120
7432818	EMT	Method Blank	Dissolved Chloride (Cl-)	2021/06/29	<1.0		mg/L	
7432818	EMT	RPD	Dissolved Chloride (Cl-)	2021/06/29	0.059		%	20
7432819	EMT	Matrix Spike	Dissolved Sulphate (SO4)	2021/06/29		NC	%	80 - 120
7432819	EMT	Spiked Blank	Dissolved Sulphate (SO4)	2021/06/29		106	%	80 - 120
7432819	EMT	Method Blank	Dissolved Sulphate (SO4)	2021/06/29	<2.0		mg/L	
7432819	EMT	RPD	Dissolved Sulphate (SO4)	2021/06/29	0.29		%	20
7432820	EMT	Matrix Spike	Reactive Silica (SiO2)	2021/06/29		97	%	80 - 120
7432820	EMT	Spiked Blank	Reactive Silica (SiO2)	2021/06/29		100	%	80 - 120
7432820	EMT	Method Blank	Reactive Silica (SiO2)	2021/06/29	<0.50		mg/L	
7432820	EMT	RPD	Reactive Silica (SiO2)	2021/06/29	1.2		%	20
7432829	EMT	Spiked Blank	Colour	2021/06/29		106	%	80 - 120
7432829	EMT	Method Blank	Colour	2021/06/29	<5.0		TCU	
7432829	EMT	RPD	Colour	2021/06/29	2.4		%	20
7432830	EMT	Matrix Spike	Orthophosphate (P)	2021/06/29		91	%	80 - 120
7432830	EMT	Spiked Blank	Orthophosphate (P)	2021/06/29		97	%	80 - 120
7432830	EMT	Method Blank	Orthophosphate (P)	2021/06/29	<0.010		mg/L	
7432830	EMT	RPD	Orthophosphate (P)	2021/06/29	NC		%	20
7432832	EMT	Matrix Spike	Nitrate + Nitrite (N)	2021/06/29		92	%	80 - 120
7432832	EMT	Spiked Blank	Nitrate + Nitrite (N)	2021/06/29		92	%	80 - 120
7432832	EMT	Method Blank	Nitrate + Nitrite (N)	2021/06/29	<0.050		mg/L	
7432832	EMT	RPD	Nitrate + Nitrite (N)	2021/06/29	NC		%	20
7432833	EMT	Matrix Spike	Nitrite (N)	2021/06/29		101	%	80 - 120
7432833	EMT	Spiked Blank	Nitrite (N)	2021/06/29		107	%	80 - 120
7432833	EMT	Method Blank	Nitrite (N)	2021/06/29	<0.010		mg/L	
7432833	EMT	RPD	Nitrite (N)	2021/06/29	NC		%	20
7432881	SHW	QC Standard	Turbidity	2021/06/28		101	%	80 - 120
7432881	SHW	Spiked Blank	Turbidity	2021/06/28		103	%	80 - 120
7432881	SHW	Method Blank	Turbidity	2021/06/28	<0.10		NTU	
7432881	SHW	RPD	Turbidity	2021/06/28	6.3		%	20
7432931	NHU	Matrix Spike	Total Mercury (Hg)	2021/06/29		101	%	80 - 120
7432931	NHU	Spiked Blank	Total Mercury (Hg)	2021/06/29		102	%	80 - 120
7432931	NHU	Method Blank	Total Mercury (Hg)	2021/06/29	<0.013		ug/L	
7432931	NHU	RPD	Total Mercury (Hg)	2021/06/29	NC		%	20



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QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
	7432943	NHU	Matrix Spike	Dissolved Mercury (Hg)	2021/06/29		103	%	80 - 120
	7432943	NHU	Spiked Blank	Dissolved Mercury (Hg)	2021/06/29		102	%	80 - 120
	7432943	NHU	Method Blank	Dissolved Mercury (Hg)	2021/06/29	<0.013		ug/L	
	7432943	NHU	RPD	Dissolved Mercury (Hg)	2021/06/29	NC		%	20
	7434814	BAN	Matrix Spike	Total Aluminum (Al)	2021/06/30		94	%	80 - 120
				Total Antimony (Sb)	2021/06/30		106	%	80 - 120
				Total Arsenic (As)	2021/06/30		90	%	80 - 120
				Total Barium (Ba)	2021/06/30		NC	%	80 - 120
				Total Beryllium (Be)	2021/06/30		99	%	80 - 120
				Total Bismuth (Bi)	2021/06/30		96	%	80 - 120
				Total Boron (B)	2021/06/30		96	%	80 - 120
				Total Cadmium (Cd)	2021/06/30		96	%	80 - 120
				Total Calcium (Ca)	2021/06/30		NC	%	80 - 120
				Total Chromium (Cr)	2021/06/30		90	%	80 - 120
				Total Cobalt (Co)	2021/06/30		92	%	80 - 120
				Total Copper (Cu)	2021/06/30		90	%	80 - 120
				Total Iron (Fe)	2021/06/30		94	%	80 - 120
				Total Lead (Pb)	2021/06/30		97	%	80 - 120
				Total Magnesium (Mg)	2021/06/30		93	%	80 - 120
				Total Manganese (Mn)	2021/06/30		94	%	80 - 120
				Total Molybdenum (Mo)	2021/06/30		100	%	80 - 120
				Total Nickel (Ni)	2021/06/30		89	%	80 - 120
				Total Phosphorus (P)	2021/06/30		100	%	80 - 120
				Total Potassium (K)	2021/06/30		98	%	80 - 120
				Total Selenium (Se)	2021/06/30		94	%	80 - 120
				Total Silver (Ag)	2021/06/30		96	%	80 - 120
				Total Sodium (Na)	2021/06/30		86	%	80 - 120
				Total Strontium (Sr)	2021/06/30		NC	%	80 - 120
				Total Thallium (Tl)	2021/06/30		96	%	80 - 120
				Total Tin (Sn)	2021/06/30		100	%	80 - 120
				Total Titanium (Ti)	2021/06/30		93	%	80 - 120
				Total Uranium (U)	2021/06/30		98	%	80 - 120
				Total Vanadium (V)	2021/06/30		95	%	80 - 120
				Total Zinc (Zn)	2021/06/30		90	%	80 - 120
	7434814	BAN	Spiked Blank	Total Aluminum (Al)	2021/06/30		97	%	80 - 120
				Total Antimony (Sb)	2021/06/30		107	%	80 - 120
				Total Arsenic (As)	2021/06/30		92	%	80 - 120
				Total Barium (Ba)	2021/06/30		103	%	80 - 120
				Total Beryllium (Be)	2021/06/30		102	%	80 - 120
				Total Bismuth (Bi)	2021/06/30		99	%	80 - 120
				Total Boron (B)	2021/06/30		98	%	80 - 120
				Total Cadmium (Cd)	2021/06/30		98	%	80 - 120
				Total Calcium (Ca)	2021/06/30		99	%	80 - 120
				Total Chromium (Cr)	2021/06/30		94	%	80 - 120
				Total Cobalt (Co)	2021/06/30		94	%	80 - 120
				Total Copper (Cu)	2021/06/30		94	%	80 - 120
				Total Iron (Fe)	2021/06/30		98	%	80 - 120
				Total Lead (Pb)	2021/06/30		101	%	80 - 120
				Total Magnesium (Mg)	2021/06/30		97	%	80 - 120
				Total Manganese (Mn)	2021/06/30		99	%	80 - 120
				Total Molybdenum (Mo)	2021/06/30		100	%	80 - 120
				Total Nickel (Ni)	2021/06/30		94	%	80 - 120
				Total Phosphorus (P)	2021/06/30		101	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7434814	BAN	Method Blank		Total Potassium (K)	2021/06/30		100	%	80 - 120
				Total Selenium (Se)	2021/06/30		96	%	80 - 120
				Total Silver (Ag)	2021/06/30		98	%	80 - 120
				Total Sodium (Na)	2021/06/30		91	%	80 - 120
				Total Strontium (Sr)	2021/06/30		99	%	80 - 120
				Total Thallium (Tl)	2021/06/30		100	%	80 - 120
				Total Tin (Sn)	2021/06/30		105	%	80 - 120
				Total Titanium (Ti)	2021/06/30		96	%	80 - 120
				Total Uranium (U)	2021/06/30		100	%	80 - 120
				Total Vanadium (V)	2021/06/30		98	%	80 - 120
				Total Zinc (Zn)	2021/06/30		94	%	80 - 120
				Total Aluminum (Al)	2021/06/30	<0.0050		mg/L	
				Total Antimony (Sb)	2021/06/30	<0.0010		mg/L	
				Total Arsenic (As)	2021/06/30	<0.0010		mg/L	
				Total Barium (Ba)	2021/06/30	<0.0010		mg/L	
				Total Beryllium (Be)	2021/06/30	<0.0010		mg/L	
				Total Bismuth (Bi)	2021/06/30	<0.0020		mg/L	
				Total Boron (B)	2021/06/30	<0.050		mg/L	
				Total Cadmium (Cd)	2021/06/30	<0.000010		mg/L	
				Total Calcium (Ca)	2021/06/30	<0.10		mg/L	
				Total Chromium (Cr)	2021/06/30	<0.0010		mg/L	
				Total Cobalt (Co)	2021/06/30	<0.00040		mg/L	
				Total Copper (Cu)	2021/06/30	<0.00050		mg/L	
				Total Iron (Fe)	2021/06/30	<0.050		mg/L	
				Total Lead (Pb)	2021/06/30	<0.00050		mg/L	
				Total Magnesium (Mg)	2021/06/30	<0.10		mg/L	
				Total Manganese (Mn)	2021/06/30	<0.0020		mg/L	
				Total Molybdenum (Mo)	2021/06/30	<0.0020		mg/L	
				Total Nickel (Ni)	2021/06/30	<0.0020		mg/L	
				Total Phosphorus (P)	2021/06/30	<0.10		mg/L	
				Total Potassium (K)	2021/06/30	<0.10		mg/L	
				Total Selenium (Se)	2021/06/30	<0.00050		mg/L	
				Total Silver (Ag)	2021/06/30	<0.00010		mg/L	
				Total Sodium (Na)	2021/06/30	<0.10		mg/L	
				Total Strontium (Sr)	2021/06/30	<0.0020		mg/L	
				Total Thallium (Tl)	2021/06/30	<0.00010		mg/L	
				Total Tin (Sn)	2021/06/30	<0.0020		mg/L	
				Total Titanium (Ti)	2021/06/30	<0.0020		mg/L	
				Total Uranium (U)	2021/06/30	<0.00010		mg/L	
				Total Vanadium (V)	2021/06/30	<0.0020		mg/L	
				Total Zinc (Zn)	2021/06/30	<0.0050		mg/L	
7434814	BAN	RPD		Total Aluminum (Al)	2021/06/30	2.1		%	20
				Total Antimony (Sb)	2021/06/30	NC		%	20
				Total Arsenic (As)	2021/06/30	NC		%	20
				Total Barium (Ba)	2021/06/30	0.11		%	20
				Total Beryllium (Be)	2021/06/30	NC		%	20
				Total Bismuth (Bi)	2021/06/30	NC		%	20
				Total Boron (B)	2021/06/30	NC		%	20
				Total Cadmium (Cd)	2021/06/30	NC		%	20
				Total Calcium (Ca)	2021/06/30	0.28		%	20
				Total Chromium (Cr)	2021/06/30	NC		%	20
				Total Cobalt (Co)	2021/06/30	NC		%	20
				Total Copper (Cu)	2021/06/30	NC		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Total Iron (Fe)	2021/06/30	0.70		%	20
				Total Lead (Pb)	2021/06/30	NC		%	20
				Total Magnesium (Mg)	2021/06/30	0.64		%	20
				Total Manganese (Mn)	2021/06/30	0.49		%	20
				Total Molybdenum (Mo)	2021/06/30	NC		%	20
				Total Nickel (Ni)	2021/06/30	NC		%	20
				Total Phosphorus (P)	2021/06/30	NC		%	20
				Total Potassium (K)	2021/06/30	5.1		%	20
				Total Selenium (Se)	2021/06/30	NC		%	20
				Total Silver (Ag)	2021/06/30	NC		%	20
				Total Sodium (Na)	2021/06/30	1.3		%	20
				Total Strontium (Sr)	2021/06/30	5.5		%	20
				Total Thallium (Tl)	2021/06/30	NC		%	20
				Total Tin (Sn)	2021/06/30	NC		%	20
				Total Titanium (Ti)	2021/06/30	NC		%	20
				Total Uranium (U)	2021/06/30	NC		%	20
				Total Vanadium (V)	2021/06/30	NC		%	20
				Total Zinc (Zn)	2021/06/30	NC		%	20
7434900	SHW		Spiked Blank	Conductivity	2021/06/29		100	%	80 - 120
7434900	SHW		Method Blank	Conductivity	2021/06/29	<1.0		uS/cm	
7434900	SHW		RPD	Conductivity	2021/06/29	0.71		%	10
7434901	SHW		Spiked Blank	pH	2021/06/29		100	%	97 - 103
7434901	SHW		RPD	pH	2021/06/29	0.26		%	N/A
7434915	EMT		Matrix Spike [PXP275-08]	Nitrogen (Ammonia Nitrogen)	2021/06/29		103	%	80 - 120
7434915	EMT		Spiked Blank	Nitrogen (Ammonia Nitrogen)	2021/06/29		102	%	80 - 120
7434915	EMT		Method Blank	Nitrogen (Ammonia Nitrogen)	2021/06/29	<0.050		mg/L	
7434915	EMT		RPD [PXP275-08]	Nitrogen (Ammonia Nitrogen)	2021/06/29	NC		%	20
7434932	NGI		Matrix Spike	Dissolved Organic Carbon (C)	2021/06/29		96	%	85 - 115
7434932	NGI		Spiked Blank	Dissolved Organic Carbon (C)	2021/06/29		103	%	80 - 120
7434932	NGI		Method Blank	Dissolved Organic Carbon (C)	2021/06/29	<0.50		mg/L	
7434932	NGI		RPD	Dissolved Organic Carbon (C)	2021/06/29	3.7		%	15
7437681	NGI		Matrix Spike	Total Organic Carbon (C)	2021/06/30		98	%	85 - 115
7437681	NGI		Spiked Blank	Total Organic Carbon (C)	2021/06/30		104	%	80 - 120
7437681	NGI		Method Blank	Total Organic Carbon (C)	2021/06/30	<0.50		mg/L	
7437681	NGI		RPD	Total Organic Carbon (C)	2021/06/30	NC		%	15

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Colleen Acker, B.Sc, Scientific Service Specialist

Eric Dearman, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
For Service Group specific validation please refer to the Validation Signature Page.

BV Labs - Partial/Rush Results



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Inspiring Minds

Department of Oceanography
1355 Oxford St
Halifax, NS
B3H 4R2

Determination of chlorophyll a by fluorescence

Client: Bureau Veritas Laboratories, 200 Bluewater Road, Bedford, NS, B4B 1G9

Attention: Melissa DiPinto

Received: 2021-06-24

Project #: C1H4100

Completed: 2021-06-30

Hugh MacIntyre

Hugh MacIntyre, Ph.D.

Chl *a* (chlorophyll *a* ; $\mu\text{g L}^{-1}$) determined by the acidification method (Holm-Hansen et al., 1965). Estimates made with the non-acidification method (Welschmeyer, 1994) are shown for comparison.

The non-acidification method is considered more reliable than the acidification method in correcting for bias due to the contributions of chlorophyll *b* and chlorophyll degradation products.

Holm-Hansen O, Lorenzen CJ, Holmes RW, Strickland JDH (1965) Fluorometric determination of chlorophyll.

J Conseil 30:3-15

Welschmeyer NA (1994) Fluorometric analysis of chlorophyll *a* in the presence of chlorophyll *b* and phaeopigments.

Limnol Oceanogr 39:1985-1992

Contractor ID	Client ID	Chl <i>a</i> (acidification)	Chl <i>a</i> (non-acidification)
PXP275-01R	SW-16-21	123	144



Your P.O. #: 0267
 Your Project #: GOLDBORO
 Your C.O.C. #: 830403-01-01, 830403-02-01

Attention: Derek Bullock

Anaconda Mining Inc
 Goldboro Gold Mine
 570 Goldbrook Road
 Goldboro, NS
 Canada BOH 1L0

Report Date: 2021/08/04
 Report #: R6750349
 Version: 1 - Partial

CERTIFICATE OF ANALYSIS – PARTIAL RESULTS

BV LABS JOB #: C1K8034

Received: 2021/07/23, 10:52

Sample Matrix: Water
 # Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Carbonate, Bicarbonate and Hydroxide	11	N/A	2021/07/29	N/A	SM 23 4500-CO2 D
Alkalinity	11	N/A	2021/07/29	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	11	N/A	2021/07/29	ATL SOP 00014	SM 23 4500-Cl- E m
Colour	11	N/A	2021/07/29	ATL SOP 00020	SM 23 2120C m
Organic carbon - Diss (DOC) (1)	11	N/A	2021/07/29	ATL SOP 00203	SM 23 5310B m
Conductance - water	11	N/A	2021/07/29	ATL SOP 00004	SM 23 2510B m
Hardness (calculated as CaCO3)	4	N/A	2021/07/29	ATL SOP 00048	Auto Calc
Hardness (calculated as CaCO3)	7	N/A	2021/07/30	ATL SOP 00048	Auto Calc
Mercury - Dissolved (CVAA,LL)	9	2021/07/28	2021/07/28	ATL SOP 00026	EPA 245.1 R3 m
Mercury - Dissolved (CVAA,LL)	2	2021/07/29	2021/07/29	ATL SOP 00026	EPA 245.1 R3 m
Mercury - Total (CVAA,LL)	11	2021/07/28	2021/07/28	ATL SOP 00026	EPA 245.1 R3 m
Metals Water Diss. MS (as rec'd)	9	N/A	2021/07/29	ATL SOP 00058	EPA 6020B R2 m
Metals Water Diss. MS (as rec'd)	2	N/A	2021/08/03	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	1	2021/07/27	2021/07/28	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	4	2021/07/27	2021/07/29	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	1	2021/07/28	2021/07/28	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	5	2021/07/28	2021/07/29	ATL SOP 00058	EPA 6020B R2 m
Ion Balance (% Difference)	11	N/A	2021/07/30	N/A	Auto Calc.
Anion and Cation Sum	11	N/A	2021/07/30	N/A	Auto Calc.
Nitrogen Ammonia - water	1	N/A	2021/07/28	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen Ammonia - water	10	N/A	2021/07/29	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	11	N/A	2021/07/29	ATL SOP 00016	USGS I-2547-11m
Nitrogen - Nitrite	11	N/A	2021/07/29	ATL SOP 00017	SM 23 4500-NO2- B m
Nitrogen - Nitrate (as N)	11	N/A	2021/07/30	ATL SOP 00018	ASTM D3867-16
pH (2)	11	N/A	2021/07/29	ATL SOP 00003	SM 23 4500-H+ B m
Phosphorus - ortho	11	N/A	2021/07/29	ATL SOP 00021	SM 23 4500-P E m
Sat. pH and Langelier Index (@ 20C)	9	N/A	2021/07/30	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 20C)	2	N/A	2021/08/03	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	9	N/A	2021/07/30	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	2	N/A	2021/08/03	ATL SOP 00049	Auto Calc.
Reactive Silica	11	N/A	2021/07/29	ATL SOP 00022	EPA 366.0 m



Your P.O. #: 0267
Your Project #: GOLDBORO
Your C.O.C. #: 830403-01-01, 830403-02-01

Attention: Derek Bullock

Anaconda Mining Inc
Goldboro Gold Mine
570 Goldbrook Road
Goldboro, NS
Canada BOH 1L0

Report Date: 2021/08/04
Report #: R6750349
Version: 1 - Partial

CERTIFICATE OF ANALYSIS – PARTIAL RESULTS

BV LABS JOB #: C1K8034

Received: 2021/07/23, 10:52

Sample Matrix: Water
Samples Received: 11

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Sulphate	11	N/A	2021/07/29	ATL SOP 00023	ASTM D516-16 m
Total Dissolved Solids (TDS calc)	11	N/A	2021/07/30	N/A	Auto Calc.
Organic carbon - Total (TOC) (1)	11	N/A	2021/07/29	ATL SOP 00203	SM 23 5310B m
Turbidity	11	N/A	2021/07/29	ATL SOP 00011	EPA 180.1 R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

(2) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.



BV Labs - Partial/Rush Results

Your P.O. #: 0267
Your Project #: GOLDBORO
Your C.O.C. #: 830403-01-01, 830403-02-01

Attention: Derek Bullock

Anaconda Mining Inc
Goldboro Gold Mine
570 Goldbrook Road
Goldboro, NS
Canada BOH 1L0

Report Date: 2021/08/04
Report #: R6750349
Version: 1 - Partial

CERTIFICATE OF ANALYSIS – PARTIAL RESULTS

BV LABS JOB #: C1K8034

Received: 2021/07/23, 10:52

Encryption Key

Tyler Travers
Project Manager Assistant
04 Aug 2021 17:18:05

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Maryann Comeau, Customer Experience Supervisor/PM
Email: Maryann.COMEAU@bureauveritas.com
Phone# (902)420-0203 Ext:298

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BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

RESULTS OF ANALYSES OF WATER

BV Labs ID		QES365		QES366		QES367		QES368		
Sampling Date		2021/07/20 17:00		2021/07/20 13:20		2021/07/20 12:45		2021/07/20 11:50		
COC Number		830403-01-01		830403-01-01		830403-01-01		830403-01-01		
	UNITS	SW-11-21	QC Batch	SW-12-21	RDL	SW-13-21	RDL	SW-14-21	RDL	QC Batch
Calculated Parameters										
Anion Sum	me/L	0.260	7482839	0.220	N/A	0.230	N/A	0.160	N/A	7482839
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	7482836	<1.0	1.0	<1.0	1.0	<1.0	1.0	7482836
Calculated TDS	mg/L	21	7482843	15	1.0	24	1.0	18	1.0	7482843
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	7482836	<1.0	1.0	<1.0	1.0	<1.0	1.0	7482836
Cation Sum	me/L	0.370	7482839	0.230	N/A	0.340	N/A	0.300	N/A	7482839
Hardness (CaCO ₃)	mg/L	5.8	7482837	2.9	1.0	3.9	1.0	3.7	1.0	7482837
Ion Balance (% Difference)	%	17.5	7482838	2.22	N/A	19.3	N/A	30.4	N/A	7482838
Langelier Index (@ 20C)	N/A	NC	7482841	NC		NC		NC		7482841
Langelier Index (@ 4C)	N/A	NC	7482842	NC		NC		NC		7482842
Nitrate (N)	mg/L	<0.050	7482840	<0.050	0.050	<0.050	0.050	<0.050	0.050	7482840
Saturation pH (@ 20C)	N/A	NC	7482841	NC		NC		NC		7482841
Saturation pH (@ 4C)	N/A	NC	7482842	NC		NC		NC		7482842
Inorganics										
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	7490154	<5.0	5.0	<5.0	5.0	<5.0	5.0	7490154
Dissolved Chloride (Cl ⁻)	mg/L	6.8	7490155	4.9	1.0	6.7	1.0	5.8	1.0	7490155
Colour	TCU	150	7490181	110	25	290	50	140	25	7490181
Nitrate + Nitrite (N)	mg/L	<0.050	7490186	<0.050	0.050	<0.050	0.050	<0.050	0.050	7490186
Nitrite (N)	mg/L	<0.010	7490187	<0.010	0.010	<0.010	0.010	<0.010	0.010	7490187
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	7487939	<0.050	0.050	<0.050	0.050	<0.050	0.050	7490673
Dissolved Organic Carbon (C)	mg/L	12	7490180	9.2	0.50	22	0.50	13	0.50	7490180
Total Organic Carbon (C)	mg/L	24	7490176	10	0.50	23	0.50	11	0.50	7490176
Orthophosphate (P)	mg/L	0.063	7490183	<0.010	0.010	<0.010	0.010	<0.010	0.010	7490183
pH	pH	6.07	7490076	5.49		5.05		5.58		7490076
Reactive Silica (SiO ₂)	mg/L	3.0	7490167	0.96	0.50	8.0	0.50	5.4	0.50	7490167
Dissolved Sulphate (SO ₄)	mg/L	2.9	7490163	3.8	2.0	2.0	2.0	<2.0	2.0	7490163
Turbidity	NTU	17	7490108	1.3	0.10	1.3	0.10	0.59	0.10	7490108
Conductivity	uS/cm	36	7490075	26	1.0	35	1.0	31	1.0	7490075
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable										

BV Labs - Partial/Rush Results



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

RESULTS OF ANALYSES OF WATER

BV Labs ID		QES369			QES370	QES371		
Sampling Date		2021/07/20 15:20			2021/07/20 10:40	2021/07/20 09:50		
COC Number		830403-01-01			830403-01-01	830403-01-01		
	UNITS	SW-15-21	RDL	QC Batch	SW-16-21	SW-17-21	RDL	QC Batch
Calculated Parameters								
Anion Sum	me/L	0.200	N/A	7482839	0.160	0.150	N/A	7482839
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7482836	<1.0	<1.0	1.0	7482836
Calculated TDS	mg/L	14	1.0	7482843	15	17	1.0	7482843
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7482836	<1.0	<1.0	1.0	7482836
Cation Sum	me/L	0.220	N/A	7482839	0.270	0.280	N/A	7482839
Hardness (CaCO ₃)	mg/L	2.9	1.0	7482837	3.1	3.0	1.0	7482837
Ion Balance (% Difference)	%	4.76	N/A	7482838	25.6	30.2	N/A	7482838
Langelier Index (@ 20C)	N/A	NC		7482841	NC	NC		7482841
Langelier Index (@ 4C)	N/A	NC		7482842	NC	NC		7482842
Nitrate (N)	mg/L	<0.050	0.050	7482840	0.056	<0.050	0.050	7482840
Saturation pH (@ 20C)	N/A	NC		7482841	NC	NC		7482841
Saturation pH (@ 4C)	N/A	NC		7482842	NC	NC		7482842
Inorganics								
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7490154	<5.0	<5.0	5.0	7490154
Dissolved Chloride (Cl ⁻)	mg/L	4.8	1.0	7490155	5.5	5.3	1.0	7490155
Colour	TCU	25	5.0	7490181	170	190	25	7490181
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7490186	0.056	<0.050	0.050	7490186
Nitrite (N)	mg/L	<0.010	0.010	7490187	<0.010	<0.010	0.010	7490187
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7490673	<0.050	<0.050	0.050	7490673
Dissolved Organic Carbon (C)	mg/L	4.1	0.50	7490180	15	18	0.50	7490180
Total Organic Carbon (C)	mg/L	4.3	0.50	7487526	15	17	0.50	7490176
Orthophosphate (P)	mg/L	<0.010	0.010	7490183	<0.010	<0.010	0.010	7490183
pH	pH	6.19		7490078	5.07	5.03		7490078
Reactive Silica (SiO ₂)	mg/L	1.8	0.50	7490167	3.9	5.1	0.50	7490167
Dissolved Sulphate (SO ₄)	mg/L	2.9	2.0	7490163	<2.0	<2.0	2.0	7490163
Turbidity	NTU	1.5	0.10	7490108	0.79	1.0	0.10	7490108
Conductivity	uS/cm	27	1.0	7490077	33	32	1.0	7490077
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable								

BV Labs - Partial/Rush Results



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

RESULTS OF ANALYSES OF WATER

BV Labs ID		QES372			QES373			QES374		
Sampling Date		2021/07/21 14:10			2021/07/21 14:30			2021/07/20 11:15		
COC Number		830403-01-01			830403-01-01			830403-01-01		
	UNITS	SW-18-21	RDL	QC Batch	SW-19-21	RDL	QC Batch	SW-20-21	RDL	QC Batch
Calculated Parameters										
Anion Sum	me/L	0.260	N/A	7482839	0.210	N/A	7482839	0.200	N/A	7482839
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7482836	<1.0	1.0	7482836	<1.0	1.0	7482836
Calculated TDS	mg/L	29	1.0	7482843	21	1.0	7482843	21	1.0	7482843
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7482836	<1.0	1.0	7482836	<1.0	1.0	7482836
Cation Sum	me/L	0.440	N/A	7482839	0.420	N/A	7482839	0.380	N/A	7482839
Hardness (CaCO ₃)	mg/L	5.4	1.0	7482837	4.4	1.0	7482837	4.7	1.0	7482837
Ion Balance (% Difference)	%	25.7	N/A	7482838	33.3	N/A	7482838	31.0	N/A	7482838
Langelier Index (@ 20C)	N/A	NC		7482841	NC		7482841	NC		7482841
Langelier Index (@ 4C)	N/A	NC		7482842	NC		7482842	NC		7482842
Nitrate (N)	mg/L	<0.050	0.050	7482840	<0.050	0.050	7482840	<0.050	0.050	7482840
Saturation pH (@ 20C)	N/A	NC		7482841	NC		7482841	NC		7482841
Saturation pH (@ 4C)	N/A	NC		7482842	NC		7482842	NC		7482842
Inorganics										
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7488777	<5.0	5.0	7488777	<5.0	5.0	7488508
Dissolved Chloride (Cl ⁻)	mg/L	7.5	1.0	7488780	7.4	1.0	7488780	7.2	1.0	7488526
Colour	TCU	280	50	7488793	340	50	7488793	280	50	7488545
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7488798	<0.050	0.050	7488798	<0.050	0.050	7488561
Nitrite (N)	mg/L	<0.010	0.010	7488749	<0.010	0.010	7488749	<0.010	0.010	7488567
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7490673	0.065	0.050	7490710	0.059	0.050	7490710
Dissolved Organic Carbon (C)	mg/L	19	0.50	7490180	39	0.50	7490180	24	0.50	7490180
Total Organic Carbon (C)	mg/L	31	0.50	7490176	65 (1)	5.0	7490176	23	0.50	7490176
Orthophosphate (P)	mg/L	<0.010	0.010	7488795	<0.010	0.010	7488795	<0.010	0.010	7488547
pH	pH	5.52		7490078	4.36		7490078	5.05		7490078
Reactive Silica (SiO ₂)	mg/L	8.6	0.50	7488791	5.1	0.50	7488791	5.4	0.50	7488537
Dissolved Sulphate (SO ₄)	mg/L	2.2	2.0	7488784	<2.0	2.0	7488784	<2.0	2.0	7488530
Turbidity	NTU	52	0.10	7490108	290	1.0	7490108	2.0	0.10	7490108
Conductivity	uS/cm	36	1.0	7490077	54	1.0	7490077	36	1.0	7490077
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Elevated reporting limit due to turbidity.										



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

RESULTS OF ANALYSES OF WATER

BV Labs ID		QES377		
Sampling Date		2021/07/21		
COC Number		830403-02-01		
	UNITS	SWDUPA	RDL	QC Batch
Calculated Parameters				
Anion Sum	me/L	0.320	N/A	7482839
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	5.4	1.0	7482836
Calculated TDS	mg/L	18	1.0	7482843
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7482836
Cation Sum	me/L	0.230	N/A	7482839
Hardness (CaCO ₃)	mg/L	3.1	1.0	7482837
Ion Balance (% Difference)	%	16.4	N/A	7482838
Langelier Index (@ 20C)	N/A	-5.28		7482841
Langelier Index (@ 4C)	N/A	-5.53		7482842
Nitrate (N)	mg/L	<0.050	0.050	7482840
Saturation pH (@ 20C)	N/A	10.8		7482841
Saturation pH (@ 4C)	N/A	11.1		7482842
Inorganics				
Total Alkalinity (Total as CaCO ₃)	mg/L	5.4	5.0	7490154
Dissolved Chloride (Cl ⁻)	mg/L	5.0	1.0	7490155
Colour	TCU	26	5.0	7490181
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7490186
Nitrite (N)	mg/L	<0.010	0.010	7490187
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7490710
Dissolved Organic Carbon (C)	mg/L	4.1	0.50	7490180
Total Organic Carbon (C)	mg/L	4.6	0.50	7490176
Orthophosphate (P)	mg/L	<0.010	0.010	7490183
pH	pH	5.57		7490078
Reactive Silica (SiO ₂)	mg/L	1.8	0.50	7490167
Dissolved Sulphate (SO ₄)	mg/L	3.2	2.0	7490163
Turbidity	NTU	0.91	0.10	7490108
Conductivity	uS/cm	26	1.0	7490077
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				
N/A = Not Applicable				



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

MERCURY BY COLD VAPOUR AA (WATER)

BV Labs ID		QES365	QES366	QES367	QES368	QES369	QES370		
Sampling Date		2021/07/20 17:00	2021/07/20 13:20	2021/07/20 12:45	2021/07/20 11:50	2021/07/20 15:20	2021/07/20 10:40		
COC Number		830403-01-01	830403-01-01	830403-01-01	830403-01-01	830403-01-01	830403-01-01		
	UNITS	SW-11-21	SW-12-21	SW-13-21	SW-14-21	SW-15-21	SW-16-21	RDL	QC Batch

Metals									
Dissolved Mercury (Hg)	ug/L	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	0.013	7485594
Total Mercury (Hg)	ug/L	0.21	<0.013	<0.013	<0.013	<0.013	<0.013	0.013	7485590
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									

BV Labs ID		QES371	QES372	QES373		QES374	QES377		
Sampling Date		2021/07/20 09:50	2021/07/21 14:10	2021/07/21 14:30		2021/07/20 11:15	2021/07/21		
COC Number		830403-01-01	830403-01-01	830403-01-01		830403-01-01	830403-02-01		
	UNITS	SW-17-21	SW-18-21	SW-19-21	QC Batch	SW-20-21	SWDUPA	RDL	QC Batch

Metals									
Dissolved Mercury (Hg)	ug/L	<0.013	<0.013	<0.013	7485594	<0.013	<0.013	0.013	7487793
Total Mercury (Hg)	ug/L	<0.013	0.023	0.11	7485590	<0.013	<0.013	0.013	7485603
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QES365		QES366		QES367	QES368		
Sampling Date		2021/07/20 17:00		2021/07/20 13:20		2021/07/20 12:45	2021/07/20 11:50		
COC Number		830403-01-01		830403-01-01		830403-01-01	830403-01-01		
	UNITS	SW-11-21	RDL	SW-12-21	QC Batch	SW-13-21	SW-14-21	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	200	5.0	250	7490947	440	190	5.0	7490947
Total Aluminum (Al)	mg/L	0.854	0.0050	0.263	7487453	0.457	0.225	0.0050	7485452
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	<1.0	7490947	<1.0	<1.0	1.0	7490947
Total Antimony (Sb)	mg/L	<0.0010	0.0010	<0.0010	7487453	<0.0010	<0.0010	0.0010	7485452
Dissolved Arsenic (As)	ug/L	230	1.0	40	7490947	5.1	1.6	1.0	7490947
Total Arsenic (As)	mg/L	0.524	0.010	0.0499	7487453	0.0055	0.0017	0.0010	7485452
Dissolved Barium (Ba)	ug/L	2.2	1.0	2.0	7490947	2.9	2.1	1.0	7490947
Total Barium (Ba)	mg/L	0.0071	0.0010	0.0023	7487453	0.0028	0.0020	0.0010	7485452
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	<1.0	7490947	<1.0	<1.0	1.0	7490947
Total Beryllium (Be)	mg/L	<0.0010	0.0010	<0.0010	7487453	<0.0010	<0.0010	0.0010	7485452
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	<2.0	7490947	<2.0	<2.0	2.0	7490947
Total Bismuth (Bi)	mg/L	<0.0020	0.0020	<0.0020	7487453	<0.0020	<0.0020	0.0020	7485452
Dissolved Boron (B)	ug/L	<50	50	<50	7490947	<50	<50	50	7490947
Total Boron (B)	mg/L	<0.050	0.050	<0.050	7487453	<0.050	<0.050	0.050	7485452
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	<0.010	7490947	0.013	<0.010	0.010	7490947
Total Cadmium (Cd)	mg/L	0.000029	0.000010	<0.000010	7487453	0.000016	<0.000010	0.000010	7485452
Dissolved Calcium (Ca)	ug/L	1400	100	540	7490947	750	770	100	7490947
Total Calcium (Ca)	mg/L	1.72	0.10	0.52	7487453	0.70	0.76	0.10	7485452
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	<1.0	7490947	<1.0	<1.0	1.0	7490947
Total Chromium (Cr)	mg/L	0.0013	0.0010	<0.0010	7487453	<0.0010	<0.0010	0.0010	7485452
Dissolved Cobalt (Co)	ug/L	<0.40	0.40	<0.40	7490947	<0.40	<0.40	0.40	7490947
Total Cobalt (Co)	mg/L	<0.00040	0.00040	<0.00040	7487453	0.00041	<0.00040	0.00040	7485452
Dissolved Copper (Cu)	ug/L	<0.50	0.50	<0.50	7490947	<0.50	<0.50	0.50	7490947
Total Copper (Cu)	mg/L	0.00171	0.00050	<0.00050	7487453	<0.00050	<0.00050	0.00050	7485452
Dissolved Iron (Fe)	ug/L	850	50	330	7490947	1100	490	50	7490947
Total Iron (Fe)	mg/L	3.30	0.050	0.471	7487453	1.18	0.532	0.050	7485452
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	7490947	0.94	0.55	0.50	7490947
Total Lead (Pb)	mg/L	0.00356	0.00050	0.00051	7487453	0.00106	0.00062	0.00050	7485452
Dissolved Magnesium (Mg)	ug/L	570	100	380	7490947	500	440	100	7490947
Total Magnesium (Mg)	mg/L	0.79	0.10	0.36	7487453	0.50	0.43	0.10	7485452
Dissolved Manganese (Mn)	ug/L	14	2.0	8.4	7490947	33	13	2.0	7490947
Total Manganese (Mn)	mg/L	0.0360	0.0020	0.0099	7487453	0.0324	0.0136	0.0020	7485452
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	<2.0	7490947	<2.0	<2.0	2.0	7490947
Total Molybdenum (Mo)	mg/L	<0.0020	0.0020	<0.0020	7487453	<0.0020	<0.0020	0.0020	7485452
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									

BV Labs - Partial/Rush Results



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QES365		QES366		QES367	QES368		
Sampling Date		2021/07/20 17:00		2021/07/20 13:20		2021/07/20 12:45	2021/07/20 11:50		
COC Number		830403-01-01		830403-01-01		830403-01-01	830403-01-01		
	UNITS	SW-11-21	RDL	SW-12-21	QC Batch	SW-13-21	SW-14-21	RDL	QC Batch
Dissolved Nickel (Ni)	ug/L	<2.0	2.0	<2.0	7490947	<2.0	<2.0	2.0	7490947
Total Nickel (Ni)	mg/L	<0.0020	0.0020	<0.0020	7487453	<0.0020	<0.0020	0.0020	7485452
Dissolved Phosphorus (P)	ug/L	<100	100	<100	7490947	<100	<100	100	7490947
Total Phosphorus (P)	mg/L	0.16	0.10	<0.10	7487453	<0.10	<0.10	0.10	7485452
Dissolved Potassium (K)	ug/L	400	100	310	7490947	370	330	100	7490947
Total Potassium (K)	mg/L	0.51	0.10	0.33	7487453	0.35	0.32	0.10	7485452
Dissolved Selenium (Se)	ug/L	<0.50	0.50	<0.50	7490947	<0.50	<0.50	0.50	7490947
Total Selenium (Se)	mg/L	<0.00050	0.00050	<0.00050	7487453	<0.00050	<0.00050	0.00050	7485452
Dissolved Silver (Ag)	ug/L	<0.10	0.10	<0.10	7490947	<0.10	<0.10	0.10	7490947
Total Silver (Ag)	mg/L	<0.00010	0.00010	<0.00010	7487453	<0.00010	<0.00010	0.00010	7485452
Dissolved Sodium (Na)	ug/L	4900	100	3500	7490947	4700	4600	100	7490947
Total Sodium (Na)	mg/L	4.99	0.10	3.51	7487453	4.61	4.40	0.10	7485452
Dissolved Strontium (Sr)	ug/L	8.9	2.0	4.9	7490947	7.4	6.6	2.0	7490947
Total Strontium (Sr)	mg/L	0.0121	0.0020	0.0058	7487453	0.0077	0.0067	0.0020	7485452
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	<0.10	7490947	<0.10	<0.10	0.10	7490947
Total Thallium (Tl)	mg/L	<0.00010	0.00010	<0.00010	7487453	<0.00010	<0.00010	0.00010	7485452
Dissolved Tin (Sn)	ug/L	<2.0	2.0	<2.0	7490947	<2.0	<2.0	2.0	7490947
Total Tin (Sn)	mg/L	<0.0020	0.0020	<0.0020	7487453	<0.0020	<0.0020	0.0020	7485452
Dissolved Titanium (Ti)	ug/L	3.0	2.0	2.4	7490947	7.3	3.3	2.0	7490947
Total Titanium (Ti)	mg/L	0.0507	0.0020	0.0043	7487453	0.0079	0.0037	0.0020	7485452
Dissolved Uranium (U)	ug/L	<0.10	0.10	<0.10	7490947	<0.10	<0.10	0.10	7490947
Total Uranium (U)	mg/L	<0.00010	0.00010	<0.00010	7487453	<0.00010	<0.00010	0.00010	7485452
Dissolved Vanadium (V)	ug/L	<2.0	2.0	<2.0	7490947	<2.0	<2.0	2.0	7490947
Total Vanadium (V)	mg/L	0.0020	0.0020	<0.0020	7487453	<0.0020	<0.0020	0.0020	7485452
Dissolved Zinc (Zn)	ug/L	6.8	5.0	6.2	7490947	6.6	5.9	5.0	7490947
Total Zinc (Zn)	mg/L	0.0058	0.0050	<0.0050	7487453	<0.0050	<0.0050	0.0050	7485452
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									

BV Labs - Partial/Rush Results



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QES369		QES370		QES371		
Sampling Date		2021/07/20 15:20		2021/07/20 10:40		2021/07/20 09:50		
COC Number		830403-01-01		830403-01-01		830403-01-01		
	UNITS	SW-15-21	QC Batch	SW-16-21	QC Batch	SW-17-21	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	84	7490947	270	7490947	280	5.0	7490947
Total Aluminum (Al)	mg/L	0.125	7487447	0.284	7487453	0.309	0.0050	7485452
Dissolved Antimony (Sb)	ug/L	<1.0	7490947	<1.0	7490947	<1.0	1.0	7490947
Total Antimony (Sb)	mg/L	<0.0010	7487447	<0.0010	7487453	<0.0010	0.0010	7485452
Dissolved Arsenic (As)	ug/L	<1.0	7490947	<1.0	7490947	<1.0	1.0	7490947
Total Arsenic (As)	mg/L	<0.0010	7487447	<0.0010	7487453	<0.0010	0.0010	7485452
Dissolved Barium (Ba)	ug/L	2.1	7490947	2.0	7490947	2.2	1.0	7490947
Total Barium (Ba)	mg/L	0.0023	7487447	0.0022	7487453	0.0019	0.0010	7485452
Dissolved Beryllium (Be)	ug/L	<1.0	7490947	<1.0	7490947	<1.0	1.0	7490947
Total Beryllium (Be)	mg/L	<0.0010	7487447	<0.0010	7487453	<0.0010	0.0010	7485452
Dissolved Bismuth (Bi)	ug/L	<2.0	7490947	<2.0	7490947	<2.0	2.0	7490947
Total Bismuth (Bi)	mg/L	<0.0020	7487447	<0.0020	7487453	<0.0020	0.0020	7485452
Dissolved Boron (B)	ug/L	<50	7490947	<50	7490947	<50	50	7490947
Total Boron (B)	mg/L	<0.050	7487447	<0.050	7487453	<0.050	0.050	7485452
Dissolved Cadmium (Cd)	ug/L	<0.010	7490947	0.011	7490947	<0.010	0.010	7490947
Total Cadmium (Cd)	mg/L	0.000010	7487447	<0.000010	7487453	0.000012	0.000010	7485452
Dissolved Calcium (Ca)	ug/L	450	7490947	570	7490947	610	100	7490947
Total Calcium (Ca)	mg/L	0.44	7487447	0.54	7487453	0.60	0.10	7485452
Dissolved Chromium (Cr)	ug/L	<1.0	7490947	<1.0	7490947	<1.0	1.0	7490947
Total Chromium (Cr)	mg/L	<0.0010	7487447	<0.0010	7487453	<0.0010	0.0010	7485452
Dissolved Cobalt (Co)	ug/L	<0.40	7490947	<0.40	7490947	<0.40	0.40	7490947
Total Cobalt (Co)	mg/L	<0.00040	7487447	<0.00040	7487453	<0.00040	0.00040	7485452
Dissolved Copper (Cu)	ug/L	<0.50	7490947	<0.50	7490947	<0.50	0.50	7490947
Total Copper (Cu)	mg/L	<0.00050	7487447	<0.00050	7487453	<0.00050	0.00050	7485452
Dissolved Iron (Fe)	ug/L	<50	7490947	410	7490947	570	50	7490947
Total Iron (Fe)	mg/L	0.160	7487447	0.425	7487453	0.604	0.050	7485452
Dissolved Lead (Pb)	ug/L	<0.50	7490947	0.54	7490947	0.62	0.50	7490947
Total Lead (Pb)	mg/L	<0.00050	7487447	0.00063	7487453	0.00069	0.00050	7485452
Dissolved Magnesium (Mg)	ug/L	440	7490947	400	7490947	350	100	7490947
Total Magnesium (Mg)	mg/L	0.41	7487447	0.37	7487453	0.35	0.10	7485452
Dissolved Manganese (Mn)	ug/L	14	7490947	8.4	7490947	11	2.0	7490947
Total Manganese (Mn)	mg/L	0.0540	7487447	0.0096	7487453	0.0105	0.0020	7485452
Dissolved Molybdenum (Mo)	ug/L	<2.0	7490947	<2.0	7490947	<2.0	2.0	7490947
Total Molybdenum (Mo)	mg/L	<0.0020	7487447	<0.0020	7487453	<0.0020	0.0020	7485452
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QES369		QES370		QES371		
Sampling Date		2021/07/20 15:20		2021/07/20 10:40		2021/07/20 09:50		
COC Number		830403-01-01		830403-01-01		830403-01-01		
	UNITS	SW-15-21	QC Batch	SW-16-21	QC Batch	SW-17-21	RDL	QC Batch
Dissolved Nickel (Ni)	ug/L	<2.0	7490947	<2.0	7490947	<2.0	2.0	7490947
Total Nickel (Ni)	mg/L	<0.0020	7487447	<0.0020	7487453	<0.0020	0.0020	7485452
Dissolved Phosphorus (P)	ug/L	<100	7490947	<100	7490947	<100	100	7490947
Total Phosphorus (P)	mg/L	<0.10	7487447	<0.10	7487453	<0.10	0.10	7485452
Dissolved Potassium (K)	ug/L	310	7490947	310	7490947	340	100	7490947
Total Potassium (K)	mg/L	0.33	7487447	0.34	7487453	0.35	0.10	7485452
Dissolved Selenium (Se)	ug/L	<0.50	7490947	<0.50	7490947	<0.50	0.50	7490947
Total Selenium (Se)	mg/L	<0.00050	7487447	<0.00050	7487453	<0.00050	0.00050	7485452
Dissolved Silver (Ag)	ug/L	<0.10	7490947	<0.10	7490947	<0.10	0.10	7490947
Total Silver (Ag)	mg/L	<0.00010	7487447	<0.00010	7487453	<0.00010	0.00010	7485452
Dissolved Sodium (Na)	ug/L	3400	7490947	4000	7490947	4300	100	7490947
Total Sodium (Na)	mg/L	3.56	7487447	4.08	7487453	4.19	0.10	7485452
Dissolved Strontium (Sr)	ug/L	4.9	7490947	5.5	7490947	5.8	2.0	7490947
Total Strontium (Sr)	mg/L	0.0052	7487447	0.0068	7487453	0.0057	0.0020	7485452
Dissolved Thallium (Tl)	ug/L	<0.10	7490947	<0.10	7490947	<0.10	0.10	7490947
Total Thallium (Tl)	mg/L	<0.00010	7487447	<0.00010	7487453	<0.00010	0.00010	7485452
Dissolved Tin (Sn)	ug/L	<2.0	7490947	<2.0	7490947	<2.0	2.0	7490947
Total Tin (Sn)	mg/L	<0.0020	7487447	<0.0020	7487453	<0.0020	0.0020	7485452
Dissolved Titanium (Ti)	ug/L	<2.0	7490947	4.4	7490947	4.4	2.0	7490947
Total Titanium (Ti)	mg/L	0.0022	7487447	0.0048	7487453	0.0044	0.0020	7485452
Dissolved Uranium (U)	ug/L	<0.10	7490947	<0.10	7490947	<0.10	0.10	7490947
Total Uranium (U)	mg/L	<0.00010	7487447	<0.00010	7487453	<0.00010	0.00010	7485452
Dissolved Vanadium (V)	ug/L	<2.0	7490947	<2.0	7490947	<2.0	2.0	7490947
Total Vanadium (V)	mg/L	<0.0020	7487447	<0.0020	7487453	<0.0020	0.0020	7485452
Dissolved Zinc (Zn)	ug/L	7.8	7490947	6.5	7490947	7.4	5.0	7490947
Total Zinc (Zn)	mg/L	<0.0050	7487447	<0.0050	7487453	<0.0050	0.0050	7485452
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QES372	QES373		QES374	QES377		
Sampling Date		2021/07/21 14:10	2021/07/21 14:30		2021/07/20 11:15	2021/07/21		
COC Number		830403-01-01	830403-01-01		830403-01-01	830403-02-01		
	UNITS	SW-18-21	SW-19-21	QC Batch	SW-20-21	SWDUPA	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	470	590	7490947	690	96	5.0	7497011
Total Aluminum (Al)	mg/L	1.46	2.07	7487453	0.637	0.113	0.0050	7485452
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	7490947	<1.0	<1.0	1.0	7497011
Total Antimony (Sb)	mg/L	<0.0010	<0.0010	7487453	<0.0010	<0.0010	0.0010	7485452
Dissolved Arsenic (As)	ug/L	5.6	5.4	7490947	22	<1.0	1.0	7497011
Total Arsenic (As)	mg/L	0.0104	0.0083	7487453	0.0224	<0.0010	0.0010	7485452
Dissolved Barium (Ba)	ug/L	3.5	2.7	7490947	3.5	2.8	1.0	7497011
Total Barium (Ba)	mg/L	0.0089	0.0106	7487453	0.0030	0.0024	0.0010	7485452
Dissolved Beryllium (Be)	ug/L	<1.0	<1.0	7490947	<1.0	<1.0	1.0	7497011
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	7487453	<0.0010	<0.0010	0.0010	7485452
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	7490947	<2.0	<2.0	2.0	7497011
Total Bismuth (Bi)	mg/L	<0.0020	<0.0020	7487453	<0.0020	<0.0020	0.0020	7485452
Dissolved Boron (B)	ug/L	<50	<50	7490947	<50	<50	50	7497011
Total Boron (B)	mg/L	<0.050	<0.050	7487453	<0.050	<0.050	0.050	7485452
Dissolved Cadmium (Cd)	ug/L	<0.010	0.011	7490947	0.016	<0.010	0.010	7497011
Total Cadmium (Cd)	mg/L	0.000014	0.000039	7487453	0.000018	0.000013	0.000010	7485452
Dissolved Calcium (Ca)	ug/L	1100	860	7490947	900	490	100	7497011
Total Calcium (Ca)	mg/L	1.27	1.41	7487453	0.81	0.41	0.10	7485452
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	7490947	<1.0	<1.0	1.0	7497011
Total Chromium (Cr)	mg/L	0.0024	0.0034	7487453	<0.0010	<0.0010	0.0010	7485452
Dissolved Cobalt (Co)	ug/L	0.70	<0.40	7490947	0.54	<0.40	0.40	7497011
Total Cobalt (Co)	mg/L	0.00122	0.00085	7487453	0.00057	<0.00040	0.00040	7485452
Dissolved Copper (Cu)	ug/L	<0.50	<0.50	7490947	0.72	<0.50	0.50	7497011
Total Copper (Cu)	mg/L	0.00182	0.00535	7493211	0.00078	<0.00050	0.00050	7485452
Dissolved Iron (Fe)	ug/L	3100	1800	7490947	1400	52	50	7497011
Total Iron (Fe)	mg/L	6.24	3.60	7487453	1.47	0.141	0.050	7485452
Dissolved Lead (Pb)	ug/L	1.1	2.0	7490947	1.3	<0.50	0.50	7497011
Total Lead (Pb)	mg/L	0.00407	0.00988	7487453	0.00136	<0.00050	0.00050	7485452
Dissolved Magnesium (Mg)	ug/L	670	560	7490947	590	450	100	7497011
Total Magnesium (Mg)	mg/L	1.01	0.89	7487453	0.56	0.39	0.10	7485452
Dissolved Manganese (Mn)	ug/L	340	28	7490947	56	14	2.0	7497011
Total Manganese (Mn)	mg/L	0.403	0.0485	7487453	0.0511	0.0452	0.0020	7485452
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	7490947	<2.0	<2.0	2.0	7497011
Total Molybdenum (Mo)	mg/L	<0.0020	<0.0020	7487453	<0.0020	<0.0020	0.0020	7485452
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								

BV Labs - Partial/Rush Results



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QES372	QES373		QES374	QES377		
Sampling Date		2021/07/21 14:10	2021/07/21 14:30		2021/07/20 11:15	2021/07/21		
COC Number		830403-01-01	830403-01-01		830403-01-01	830403-02-01		
	UNITS	SW-18-21	SW-19-21	QC Batch	SW-20-21	SWDUPA	RDL	QC Batch
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	7490947	<2.0	<2.0	2.0	7497011
Total Nickel (Ni)	mg/L	<0.0020	0.0020	7487453	<0.0020	<0.0020	0.0020	7485452
Dissolved Phosphorus (P)	ug/L	<100	<100	7490947	<100	<100	100	7497011
Total Phosphorus (P)	mg/L	0.17	0.61	7487453	<0.10	<0.10	0.10	7485452
Dissolved Potassium (K)	ug/L	470	450	7490947	510	330	100	7497011
Total Potassium (K)	mg/L	0.64	1.74	7487453	0.48	0.32	0.10	7485452
Dissolved Selenium (Se)	ug/L	<0.50	<0.50	7490947	<0.50	<0.50	0.50	7497011
Total Selenium (Se)	mg/L	<0.00050	0.00051	7487453	<0.00050	<0.00050	0.00050	7485452
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	7490947	<0.10	<0.10	0.10	7497011
Total Silver (Ag)	mg/L	<0.00010	<0.00010	7487453	<0.00010	<0.00010	0.00010	7485452
Dissolved Sodium (Na)	ug/L	4600	4700	7490947	4900	3600	100	7497011
Total Sodium (Na)	mg/L	4.70	5.13	7487453	4.54	3.33	0.10	7485452
Dissolved Strontium (Sr)	ug/L	7.7	6.5	7490947	8.8	5.2	2.0	7497011
Total Strontium (Sr)	mg/L	0.0092	0.0114	7487453	0.0078	0.0049	0.0020	7485452
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	7490947	<0.10	<0.10	0.10	7497011
Total Thallium (Tl)	mg/L	<0.00010	<0.00010	7487453	<0.00010	<0.00010	0.00010	7485452
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	7490947	<2.0	<2.0	2.0	7497011
Total Tin (Sn)	mg/L	<0.0020	<0.0020	7487453	<0.0020	<0.0020	0.0020	7485452
Dissolved Titanium (Ti)	ug/L	9.3	6.4	7490947	13	<2.0	2.0	7497011
Total Titanium (Ti)	mg/L	0.0741	0.0652	7487453	0.0125	<0.0020	0.0020	7485452
Dissolved Uranium (U)	ug/L	<0.10	<0.10	7490947	<0.10	<0.10	0.10	7497011
Total Uranium (U)	mg/L	<0.00010	0.00015	7487453	<0.00010	<0.00010	0.00010	7485452
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	7490947	<2.0	<2.0	2.0	7497011
Total Vanadium (V)	mg/L	0.0035	0.0032	7487453	<0.0020	<0.0020	0.0020	7485452
Dissolved Zinc (Zn)	ug/L	7.8	7.4	7490947	<5.0	<5.0	5.0	7497011
Total Zinc (Zn)	mg/L	0.0085	0.0076	7487453	<0.0050	<0.0050	0.0050	7485452
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								

BV Labs - Partial/Rush Results



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	1.3°C
Package 2	1.0°C

Sample QES365 [SW-11-21] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent. RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample QES367 [SW-13-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample QES368 [SW-14-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample QES370 [SW-16-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample QES371 [SW-17-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample QES372 [SW-18-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample QES373 [SW-19-21] : Ion balance acceptable. Low ionic strength sample.

Sample QES374 [SW-20-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample QES377 [SWDUPA] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample QES372, Metals Water Total MS: Test repeated.

Sample QES373, Metals Water Total MS: Test repeated.

Results relate only to the items tested.



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
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Your P.O. #: 0267
Sampler Initials: DB

QUALITY ASSURANCE REPORT

QA/QC		QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
Batch	Init							
7485452	BAN	Matrix Spike	Total Aluminum (Al)	2021/07/28		95	%	80 - 120
			Total Antimony (Sb)	2021/07/28		101	%	80 - 120
			Total Arsenic (As)	2021/07/28		93	%	80 - 120
			Total Barium (Ba)	2021/07/28		98	%	80 - 120
			Total Beryllium (Be)	2021/07/28		97	%	80 - 120
			Total Bismuth (Bi)	2021/07/28		97	%	80 - 120
			Total Boron (B)	2021/07/28		98	%	80 - 120
			Total Cadmium (Cd)	2021/07/28		96	%	80 - 120
			Total Calcium (Ca)	2021/07/28		90	%	80 - 120
			Total Chromium (Cr)	2021/07/28		96	%	80 - 120
			Total Cobalt (Co)	2021/07/28		94	%	80 - 120
			Total Copper (Cu)	2021/07/28		93	%	80 - 120
			Total Iron (Fe)	2021/07/28		98	%	80 - 120
			Total Lead (Pb)	2021/07/28		96	%	80 - 120
			Total Magnesium (Mg)	2021/07/28		97	%	80 - 120
			Total Manganese (Mn)	2021/07/28		97	%	80 - 120
			Total Molybdenum (Mo)	2021/07/28		99	%	80 - 120
			Total Nickel (Ni)	2021/07/28		94	%	80 - 120
			Total Phosphorus (P)	2021/07/28		98	%	80 - 120
			Total Potassium (K)	2021/07/28		98	%	80 - 120
			Total Selenium (Se)	2021/07/28		95	%	80 - 120
			Total Silver (Ag)	2021/07/28		94	%	80 - 120
			Total Sodium (Na)	2021/07/28		NC	%	80 - 120
			Total Strontium (Sr)	2021/07/28		99	%	80 - 120
			Total Thallium (Tl)	2021/07/28		96	%	80 - 120
			Total Tin (Sn)	2021/07/28		100	%	80 - 120
			Total Titanium (Ti)	2021/07/28		98	%	80 - 120
			Total Uranium (U)	2021/07/28		102	%	80 - 120
			Total Vanadium (V)	2021/07/28		100	%	80 - 120
			Total Zinc (Zn)	2021/07/28		93	%	80 - 120
7485452	BAN	Spiked Blank	Total Aluminum (Al)	2021/07/28		94	%	80 - 120
			Total Antimony (Sb)	2021/07/28		99	%	80 - 120
			Total Arsenic (As)	2021/07/28		90	%	80 - 120
			Total Barium (Ba)	2021/07/28		96	%	80 - 120
			Total Beryllium (Be)	2021/07/28		96	%	80 - 120
			Total Bismuth (Bi)	2021/07/28		97	%	80 - 120
			Total Boron (B)	2021/07/28		94	%	80 - 120
			Total Cadmium (Cd)	2021/07/28		94	%	80 - 120
			Total Calcium (Ca)	2021/07/28		89	%	80 - 120
			Total Chromium (Cr)	2021/07/28		95	%	80 - 120
			Total Cobalt (Co)	2021/07/28		93	%	80 - 120
			Total Copper (Cu)	2021/07/28		93	%	80 - 120
			Total Iron (Fe)	2021/07/28		96	%	80 - 120
			Total Lead (Pb)	2021/07/28		96	%	80 - 120
			Total Magnesium (Mg)	2021/07/28		95	%	80 - 120
			Total Manganese (Mn)	2021/07/28		96	%	80 - 120
			Total Molybdenum (Mo)	2021/07/28		99	%	80 - 120
			Total Nickel (Ni)	2021/07/28		94	%	80 - 120
			Total Phosphorus (P)	2021/07/28		96	%	80 - 120
			Total Potassium (K)	2021/07/28		97	%	80 - 120
			Total Selenium (Se)	2021/07/28		93	%	80 - 120
			Total Silver (Ag)	2021/07/28		93	%	80 - 120
			Total Sodium (Na)	2021/07/28		93	%	80 - 120

BV Labs - Partial/Rush Results



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7485452	BAN	Method Blank	Total Strontium (Sr)	2021/07/28		95	%	80 - 120
			Total Thallium (Tl)	2021/07/28		97	%	80 - 120
			Total Tin (Sn)	2021/07/28		97	%	80 - 120
			Total Titanium (Ti)	2021/07/28		98	%	80 - 120
			Total Uranium (U)	2021/07/28		101	%	80 - 120
			Total Vanadium (V)	2021/07/28		97	%	80 - 120
			Total Zinc (Zn)	2021/07/28		93	%	80 - 120
			Total Aluminum (Al)	2021/07/28	<0.0050		mg/L	
			Total Antimony (Sb)	2021/07/28	<0.0010		mg/L	
			Total Arsenic (As)	2021/07/28	<0.0010		mg/L	
			Total Barium (Ba)	2021/07/28	<0.0010		mg/L	
			Total Beryllium (Be)	2021/07/28	<0.0010		mg/L	
			Total Bismuth (Bi)	2021/07/28	<0.0020		mg/L	
			Total Boron (B)	2021/07/28	<0.050		mg/L	
			Total Cadmium (Cd)	2021/07/28	<0.000010		mg/L	
			Total Calcium (Ca)	2021/07/28	<0.10		mg/L	
			Total Chromium (Cr)	2021/07/28	<0.0010		mg/L	
			Total Cobalt (Co)	2021/07/28	<0.00040		mg/L	
			Total Copper (Cu)	2021/07/28	<0.00050		mg/L	
			Total Iron (Fe)	2021/07/28	<0.050		mg/L	
			Total Lead (Pb)	2021/07/28	<0.00050		mg/L	
			Total Magnesium (Mg)	2021/07/28	<0.10		mg/L	
			Total Manganese (Mn)	2021/07/28	<0.0020		mg/L	
			Total Molybdenum (Mo)	2021/07/28	<0.0020		mg/L	
			Total Nickel (Ni)	2021/07/28	<0.0020		mg/L	
			Total Phosphorus (P)	2021/07/28	<0.10		mg/L	
			Total Potassium (K)	2021/07/28	<0.10		mg/L	
			Total Selenium (Se)	2021/07/28	<0.00050		mg/L	
			Total Silver (Ag)	2021/07/28	<0.00010		mg/L	
			Total Sodium (Na)	2021/07/28	<0.10		mg/L	
			Total Strontium (Sr)	2021/07/28	<0.0020		mg/L	
			Total Thallium (Tl)	2021/07/28	<0.00010		mg/L	
			Total Tin (Sn)	2021/07/28	<0.0020		mg/L	
			Total Titanium (Ti)	2021/07/28	<0.0020		mg/L	
			Total Uranium (U)	2021/07/28	<0.00010		mg/L	
			Total Vanadium (V)	2021/07/28	<0.0020		mg/L	
			Total Zinc (Zn)	2021/07/28	<0.0050		mg/L	
7485452	BAN	RPD	Total Aluminum (Al)	2021/07/28	4.3		%	20
			Total Manganese (Mn)	2021/07/28	2.1		%	20
7485590	NHU	Matrix Spike	Total Mercury (Hg)	2021/07/28		96	%	80 - 120
7485590	NHU	Spiked Blank	Total Mercury (Hg)	2021/07/28		96	%	80 - 120
7485590	NHU	Method Blank	Total Mercury (Hg)	2021/07/28	<0.013		ug/L	
7485590	NHU	RPD	Total Mercury (Hg)	2021/07/28	NC		%	20
7485594	NHU	Matrix Spike	Dissolved Mercury (Hg)	2021/07/28		96	%	80 - 120
7485594	NHU	Spiked Blank	Dissolved Mercury (Hg)	2021/07/28		97	%	80 - 120
7485594	NHU	Method Blank	Dissolved Mercury (Hg)	2021/07/28	<0.013		ug/L	
7485594	NHU	RPD	Dissolved Mercury (Hg)	2021/07/28	NC		%	20
7485603	NHU	Matrix Spike	Total Mercury (Hg)	2021/07/28		95	%	80 - 120
7485603	NHU	Spiked Blank	Total Mercury (Hg)	2021/07/28		95	%	80 - 120
7485603	NHU	Method Blank	Total Mercury (Hg)	2021/07/28	<0.013		ug/L	
7485603	NHU	RPD	Total Mercury (Hg)	2021/07/28	NC		%	20
7487447	BAN	Matrix Spike	Total Aluminum (Al)	2021/07/28		92	%	80 - 120
			Total Antimony (Sb)	2021/07/28		107	%	80 - 120

BV Labs - Partial/Rush Results



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Total Arsenic (As)	2021/07/28		92	%	80 - 120
				Total Barium (Ba)	2021/07/28		102	%	80 - 120
				Total Beryllium (Be)	2021/07/28		98	%	80 - 120
				Total Bismuth (Bi)	2021/07/28		98	%	80 - 120
				Total Boron (B)	2021/07/28		96	%	80 - 120
				Total Cadmium (Cd)	2021/07/28		95	%	80 - 120
				Total Calcium (Ca)	2021/07/28		NC	%	80 - 120
				Total Chromium (Cr)	2021/07/28		96	%	80 - 120
				Total Cobalt (Co)	2021/07/28		94	%	80 - 120
				Total Copper (Cu)	2021/07/28		92	%	80 - 120
				Total Iron (Fe)	2021/07/28		NC	%	80 - 120
				Total Lead (Pb)	2021/07/28		97	%	80 - 120
				Total Magnesium (Mg)	2021/07/28		NC	%	80 - 120
				Total Manganese (Mn)	2021/07/28		NC	%	80 - 120
				Total Molybdenum (Mo)	2021/07/28		106	%	80 - 120
				Total Nickel (Ni)	2021/07/28		94	%	80 - 120
				Total Phosphorus (P)	2021/07/28		99	%	80 - 120
				Total Potassium (K)	2021/07/28		NC	%	80 - 120
				Total Selenium (Se)	2021/07/28		96	%	80 - 120
				Total Silver (Ag)	2021/07/28		95	%	80 - 120
				Total Sodium (Na)	2021/07/28		NC	%	80 - 120
				Total Strontium (Sr)	2021/07/28		NC	%	80 - 120
				Total Thallium (Tl)	2021/07/28		96	%	80 - 120
				Total Tin (Sn)	2021/07/28		101	%	80 - 120
				Total Titanium (Ti)	2021/07/28		96	%	80 - 120
				Total Uranium (U)	2021/07/28		98	%	80 - 120
				Total Vanadium (V)	2021/07/28		100	%	80 - 120
				Total Zinc (Zn)	2021/07/28		98	%	80 - 120
	7487447	BAN	Spiked Blank	Total Aluminum (Al)	2021/07/28		99	%	80 - 120
				Total Antimony (Sb)	2021/07/28		106	%	80 - 120
				Total Arsenic (As)	2021/07/28		96	%	80 - 120
				Total Barium (Ba)	2021/07/28		103	%	80 - 120
				Total Beryllium (Be)	2021/07/28		100	%	80 - 120
				Total Bismuth (Bi)	2021/07/28		101	%	80 - 120
				Total Boron (B)	2021/07/28		99	%	80 - 120
				Total Cadmium (Cd)	2021/07/28		98	%	80 - 120
				Total Calcium (Ca)	2021/07/28		102	%	80 - 120
				Total Chromium (Cr)	2021/07/28		100	%	80 - 120
				Total Cobalt (Co)	2021/07/28		98	%	80 - 120
				Total Copper (Cu)	2021/07/28		98	%	80 - 120
				Total Iron (Fe)	2021/07/28		101	%	80 - 120
				Total Lead (Pb)	2021/07/28		101	%	80 - 120
				Total Magnesium (Mg)	2021/07/28		101	%	80 - 120
				Total Manganese (Mn)	2021/07/28		102	%	80 - 120
				Total Molybdenum (Mo)	2021/07/28		104	%	80 - 120
				Total Nickel (Ni)	2021/07/28		98	%	80 - 120
				Total Phosphorus (P)	2021/07/28		101	%	80 - 120
				Total Potassium (K)	2021/07/28		103	%	80 - 120
				Total Selenium (Se)	2021/07/28		96	%	80 - 120
				Total Silver (Ag)	2021/07/28		96	%	80 - 120
				Total Sodium (Na)	2021/07/28		99	%	80 - 120
				Total Strontium (Sr)	2021/07/28		103	%	80 - 120
				Total Thallium (Tl)	2021/07/28		101	%	80 - 120

BV Labs - Partial/Rush Results



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7487447	BAN	Method Blank	Total Tin (Sn)	2021/07/28		104	%	80 - 120
			Total Titanium (Ti)	2021/07/28		102	%	80 - 120
			Total Uranium (U)	2021/07/28		105	%	80 - 120
			Total Vanadium (V)	2021/07/28		103	%	80 - 120
			Total Zinc (Zn)	2021/07/28		99	%	80 - 120
			Total Aluminum (Al)	2021/07/28	<0.0050		mg/L	
			Total Antimony (Sb)	2021/07/28	<0.0010		mg/L	
			Total Arsenic (As)	2021/07/28	<0.0010		mg/L	
			Total Barium (Ba)	2021/07/28	<0.0010		mg/L	
			Total Beryllium (Be)	2021/07/28	<0.0010		mg/L	
			Total Bismuth (Bi)	2021/07/28	<0.0020		mg/L	
			Total Boron (B)	2021/07/28	<0.050		mg/L	
			Total Cadmium (Cd)	2021/07/28	<0.000010		mg/L	
			Total Calcium (Ca)	2021/07/28	<0.10		mg/L	
			Total Chromium (Cr)	2021/07/28	<0.0010		mg/L	
			Total Cobalt (Co)	2021/07/28	<0.00040		mg/L	
			Total Copper (Cu)	2021/07/28	<0.00050		mg/L	
			Total Iron (Fe)	2021/07/28	<0.050		mg/L	
			Total Lead (Pb)	2021/07/28	<0.00050		mg/L	
			Total Magnesium (Mg)	2021/07/28	<0.10		mg/L	
			Total Manganese (Mn)	2021/07/28	<0.0020		mg/L	
			Total Molybdenum (Mo)	2021/07/28	<0.0020		mg/L	
			Total Nickel (Ni)	2021/07/28	<0.0020		mg/L	
			Total Phosphorus (P)	2021/07/28	<0.10		mg/L	
			Total Potassium (K)	2021/07/28	<0.10		mg/L	
			Total Selenium (Se)	2021/07/28	<0.00050		mg/L	
			Total Silver (Ag)	2021/07/28	<0.00010		mg/L	
			Total Sodium (Na)	2021/07/28	<0.10		mg/L	
			Total Strontium (Sr)	2021/07/28	<0.0020		mg/L	
			Total Thallium (Tl)	2021/07/28	<0.00010		mg/L	
			Total Tin (Sn)	2021/07/28	<0.0020		mg/L	
			Total Titanium (Ti)	2021/07/28	<0.0020		mg/L	
			Total Uranium (U)	2021/07/28	<0.00010		mg/L	
			Total Vanadium (V)	2021/07/28	<0.0020		mg/L	
			Total Zinc (Zn)	2021/07/28	<0.0050		mg/L	
7487447	BAN	RPD	Total Aluminum (Al)	2021/07/28	3.3		%	20
			Total Antimony (Sb)	2021/07/28	NC		%	20
			Total Arsenic (As)	2021/07/28	2.5		%	20
			Total Barium (Ba)	2021/07/28	1.6		%	20
			Total Beryllium (Be)	2021/07/28	NC		%	20
			Total Bismuth (Bi)	2021/07/28	NC		%	20
			Total Boron (B)	2021/07/28	NC		%	20
			Total Cadmium (Cd)	2021/07/28	NC		%	20
			Total Calcium (Ca)	2021/07/28	1.8		%	20
			Total Chromium (Cr)	2021/07/28	NC		%	20
			Total Cobalt (Co)	2021/07/28	1.0		%	20
			Total Copper (Cu)	2021/07/28	NC		%	20
			Total Iron (Fe)	2021/07/28	2.0		%	20
			Total Lead (Pb)	2021/07/28	NC		%	20
			Total Magnesium (Mg)	2021/07/28	1.6		%	20
			Total Manganese (Mn)	2021/07/28	1.6		%	20
			Total Molybdenum (Mo)	2021/07/28	NC		%	20
			Total Nickel (Ni)	2021/07/28	NC		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7487453	BAN	Matrix Spike	Total Phosphorus (P)	2021/07/28	6.9			%	20
			Total Potassium (K)	2021/07/28	2.5			%	20
			Total Selenium (Se)	2021/07/28	NC			%	20
			Total Silver (Ag)	2021/07/28	NC			%	20
			Total Sodium (Na)	2021/07/28	2.2			%	20
			Total Strontium (Sr)	2021/07/28	2.1			%	20
			Total Thallium (Tl)	2021/07/28	NC			%	20
			Total Tin (Sn)	2021/07/28	NC			%	20
			Total Titanium (Ti)	2021/07/28	NC			%	20
			Total Uranium (U)	2021/07/28	NC			%	20
			Total Vanadium (V)	2021/07/28	NC			%	20
			Total Zinc (Zn)	2021/07/28	NC			%	20
			Total Aluminum (Al)	2021/07/29			NC	%	80 - 120
			Total Antimony (Sb)	2021/07/29			93	%	80 - 120
			Total Arsenic (As)	2021/07/29			89	%	80 - 120
			Total Barium (Ba)	2021/07/29			85	%	80 - 120
			Total Beryllium (Be)	2021/07/29			92	%	80 - 120
			Total Bismuth (Bi)	2021/07/29			91	%	80 - 120
			Total Boron (B)	2021/07/29			86	%	80 - 120
			Total Cadmium (Cd)	2021/07/29			92	%	80 - 120
			Total Calcium (Ca)	2021/07/29			NC	%	80 - 120
			Total Chromium (Cr)	2021/07/29			95	%	80 - 120
			Total Cobalt (Co)	2021/07/29			NC	%	80 - 120
			Total Copper (Cu)	2021/07/29			98	%	80 - 120
			Total Iron (Fe)	2021/07/29			NC	%	80 - 120
			Total Lead (Pb)	2021/07/29			93	%	80 - 120
			Total Magnesium (Mg)	2021/07/29			NC	%	80 - 120
			Total Manganese (Mn)	2021/07/29			NC	%	80 - 120
			Total Molybdenum (Mo)	2021/07/29			94	%	80 - 120
			Total Nickel (Ni)	2021/07/29			NC	%	80 - 120
			Total Phosphorus (P)	2021/07/29			99	%	80 - 120
			Total Potassium (K)	2021/07/29			NC	%	80 - 120
			Total Selenium (Se)	2021/07/29			95	%	80 - 120
			Total Silver (Ag)	2021/07/29			89	%	80 - 120
			Total Sodium (Na)	2021/07/29			NC	%	80 - 120
			Total Strontium (Sr)	2021/07/29			NC	%	80 - 120
			Total Thallium (Tl)	2021/07/29			92	%	80 - 120
			Total Tin (Sn)	2021/07/29			92	%	80 - 120
			Total Titanium (Ti)	2021/07/29			101	%	80 - 120
			Total Uranium (U)	2021/07/29			93	%	80 - 120
			Total Vanadium (V)	2021/07/29			97	%	80 - 120
			Total Zinc (Zn)	2021/07/29			NC	%	80 - 120
7487453	BAN	Spiked Blank	Total Aluminum (Al)	2021/07/28			93	%	80 - 120
			Total Antimony (Sb)	2021/07/28			104	%	80 - 120
			Total Arsenic (As)	2021/07/28			93	%	80 - 120
			Total Barium (Ba)	2021/07/28			101	%	80 - 120
			Total Beryllium (Be)	2021/07/28			99	%	80 - 120
			Total Bismuth (Bi)	2021/07/28			100	%	80 - 120
			Total Boron (B)	2021/07/28			94	%	80 - 120
			Total Cadmium (Cd)	2021/07/28			96	%	80 - 120
			Total Calcium (Ca)	2021/07/28			96	%	80 - 120
			Total Chromium (Cr)	2021/07/28			97	%	80 - 120
			Total Cobalt (Co)	2021/07/28			97	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7487453	BAN	Method Blank	Total Copper (Cu)	2021/07/28		95	%	80 - 120
			Total Iron (Fe)	2021/07/28		96	%	80 - 120
			Total Lead (Pb)	2021/07/28		99	%	80 - 120
			Total Magnesium (Mg)	2021/07/28		95	%	80 - 120
			Total Manganese (Mn)	2021/07/28		99	%	80 - 120
			Total Molybdenum (Mo)	2021/07/28		101	%	80 - 120
			Total Nickel (Ni)	2021/07/28		97	%	80 - 120
			Total Phosphorus (P)	2021/07/28		95	%	80 - 120
			Total Potassium (K)	2021/07/28		101	%	80 - 120
			Total Selenium (Se)	2021/07/28		93	%	80 - 120
			Total Silver (Ag)	2021/07/28		96	%	80 - 120
			Total Sodium (Na)	2021/07/28		93	%	80 - 120
			Total Strontium (Sr)	2021/07/28		100	%	80 - 120
			Total Thallium (Tl)	2021/07/28		100	%	80 - 120
			Total Tin (Sn)	2021/07/28		104	%	80 - 120
			Total Titanium (Ti)	2021/07/28		101	%	80 - 120
			Total Uranium (U)	2021/07/28		103	%	80 - 120
			Total Vanadium (V)	2021/07/28		99	%	80 - 120
			Total Zinc (Zn)	2021/07/28		96	%	80 - 120
			Total Aluminum (Al)	2021/07/28	<0.0050		mg/L	
			Total Antimony (Sb)	2021/07/28	<0.0010		mg/L	
			Total Arsenic (As)	2021/07/28	<0.0010		mg/L	
			Total Barium (Ba)	2021/07/28	<0.0010		mg/L	
			Total Beryllium (Be)	2021/07/28	<0.0010		mg/L	
			Total Bismuth (Bi)	2021/07/28	<0.0020		mg/L	
			Total Boron (B)	2021/07/28	<0.050		mg/L	
			Total Cadmium (Cd)	2021/07/28	<0.000010		mg/L	
7487453	BAN	RPD	Total Calcium (Ca)	2021/07/28	<0.10		mg/L	
			Total Chromium (Cr)	2021/07/28	<0.0010		mg/L	
			Total Cobalt (Co)	2021/07/28	<0.00040		mg/L	
			Total Copper (Cu)	2021/07/28	0.00056, RDL=0.00050 (1)		mg/L	
			Total Iron (Fe)	2021/07/28	<0.050		mg/L	
			Total Lead (Pb)	2021/07/28	<0.00050		mg/L	
			Total Magnesium (Mg)	2021/07/28	<0.10		mg/L	
			Total Manganese (Mn)	2021/07/28	<0.0020		mg/L	
			Total Molybdenum (Mo)	2021/07/28	<0.0020		mg/L	
			Total Nickel (Ni)	2021/07/28	<0.0020		mg/L	
			Total Phosphorus (P)	2021/07/28	<0.10		mg/L	
			Total Potassium (K)	2021/07/28	<0.10		mg/L	
			Total Selenium (Se)	2021/07/28	<0.00050		mg/L	
			Total Silver (Ag)	2021/07/28	<0.00010		mg/L	
			Total Sodium (Na)	2021/07/28	<0.10		mg/L	
			Total Strontium (Sr)	2021/07/28	<0.0020		mg/L	
			Total Thallium (Tl)	2021/07/28	<0.00010		mg/L	
			Total Tin (Sn)	2021/07/28	<0.0020		mg/L	
			Total Titanium (Ti)	2021/07/28	<0.0020		mg/L	
			Total Uranium (U)	2021/07/28	<0.00010		mg/L	
			Total Vanadium (V)	2021/07/28	<0.0020		mg/L	
			Total Zinc (Zn)	2021/07/28	<0.0050		mg/L	
			Total Aluminum (Al)	2021/07/29	1.5		%	20
			Total Antimony (Sb)	2021/07/29	NC		%	20
			Total Arsenic (As)	2021/07/29	7.6		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Barium (Ba)	2021/07/29	2.6		%	20
			Total Beryllium (Be)	2021/07/29	NC		%	20
			Total Bismuth (Bi)	2021/07/29	NC		%	20
			Total Boron (B)	2021/07/29	NC		%	20
			Total Cadmium (Cd)	2021/07/29	NC		%	20
			Total Calcium (Ca)	2021/07/29	0.047		%	20
			Total Chromium (Cr)	2021/07/29	NC		%	20
			Total Cobalt (Co)	2021/07/29	0.0071		%	20
			Total Copper (Cu)	2021/07/29	8.1		%	20
			Total Iron (Fe)	2021/07/29	1.8		%	20
			Total Lead (Pb)	2021/07/29	NC		%	20
			Total Magnesium (Mg)	2021/07/29	2.3		%	20
			Total Manganese (Mn)	2021/07/29	0.64		%	20
			Total Molybdenum (Mo)	2021/07/29	NC		%	20
			Total Nickel (Ni)	2021/07/29	2.4		%	20
			Total Phosphorus (P)	2021/07/29	NC		%	20
			Total Potassium (K)	2021/07/29	0.34		%	20
			Total Selenium (Se)	2021/07/29	NC		%	20
			Total Silver (Ag)	2021/07/29	NC		%	20
			Total Sodium (Na)	2021/07/29	1.5		%	20
			Total Strontium (Sr)	2021/07/29	1.8		%	20
			Total Thallium (Tl)	2021/07/29	NC		%	20
			Total Tin (Sn)	2021/07/29	NC		%	20
			Total Titanium (Ti)	2021/07/29	NC		%	20
			Total Uranium (U)	2021/07/29	NC		%	20
			Total Vanadium (V)	2021/07/29	NC		%	20
			Total Zinc (Zn)	2021/07/29	5.5		%	20
7487526	NGI	Matrix Spike	Total Organic Carbon (C)	2021/07/29		96	%	85 - 115
7487526	NGI	Spiked Blank	Total Organic Carbon (C)	2021/07/29		98	%	80 - 120
7487526	NGI	Method Blank	Total Organic Carbon (C)	2021/07/29	<0.50		mg/L	
7487526	NGI	RPD	Total Organic Carbon (C)	2021/07/29	4.0		%	15
7487793	NHU	Matrix Spike [QES377-07]	Dissolved Mercury (Hg)	2021/07/29		105	%	80 - 120
7487793	NHU	Spiked Blank	Dissolved Mercury (Hg)	2021/07/29		101	%	80 - 120
7487793	NHU	Method Blank	Dissolved Mercury (Hg)	2021/07/29	<0.013		ug/L	
7487793	NHU	RPD [QES374-07]	Dissolved Mercury (Hg)	2021/07/29	NC		%	20
7487939	EMT	Matrix Spike [QES365-03]	Nitrogen (Ammonia Nitrogen)	2021/07/28		94	%	80 - 120
7487939	EMT	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2021/07/28		103	%	80 - 120
7487939	EMT	Method Blank	Nitrogen (Ammonia Nitrogen)	2021/07/28	<0.050		mg/L	
7487939	EMT	RPD [QES365-03]	Nitrogen (Ammonia Nitrogen)	2021/07/28	NC		%	20
7488508	EMT	Matrix Spike	Total Alkalinity (Total as CaCO3)	2021/07/29		42 (2)	%	80 - 120
7488508	EMT	Spiked Blank	Total Alkalinity (Total as CaCO3)	2021/07/29		111	%	80 - 120
7488508	EMT	Method Blank	Total Alkalinity (Total as CaCO3)	2021/07/29	<5.0		mg/L	
7488508	EMT	RPD	Total Alkalinity (Total as CaCO3)	2021/07/29	3.3		%	20
7488526	EMT	Matrix Spike	Dissolved Chloride (Cl-)	2021/07/29		NC	%	80 - 120
7488526	EMT	Spiked Blank	Dissolved Chloride (Cl-)	2021/07/29		101	%	80 - 120
7488526	EMT	Method Blank	Dissolved Chloride (Cl-)	2021/07/29	<1.0		mg/L	
7488526	EMT	RPD	Dissolved Chloride (Cl-)	2021/07/29	4.1		%	20
7488530	EMT	Matrix Spike	Dissolved Sulphate (SO4)	2021/07/29		NC	%	80 - 120
7488530	EMT	Spiked Blank	Dissolved Sulphate (SO4)	2021/07/29		102	%	80 - 120
7488530	EMT	Method Blank	Dissolved Sulphate (SO4)	2021/07/29	<2.0		mg/L	
7488530	EMT	RPD	Dissolved Sulphate (SO4)	2021/07/29	3.3		%	20
7488537	EMT	Matrix Spike	Reactive Silica (SiO2)	2021/07/29		NC	%	80 - 120
7488537	EMT	Spiked Blank	Reactive Silica (SiO2)	2021/07/29		95	%	80 - 120

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QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
	7488537	EMT	Method Blank	Reactive Silica (SiO2)	2021/07/29	<0.50		mg/L	
	7488537	EMT	RPD	Reactive Silica (SiO2)	2021/07/29	0.39		%	20
	7488545	EMT	Spiked Blank	Colour	2021/07/29		88	%	80 - 120
	7488545	EMT	Method Blank	Colour	2021/07/29	<5.0		TCU	
	7488545	EMT	RPD	Colour	2021/07/29	0.95		%	20
	7488547	EMT	Matrix Spike	Orthophosphate (P)	2021/07/29		0.0 (3)	%	80 - 120
	7488547	EMT	Spiked Blank	Orthophosphate (P)	2021/07/29		90	%	80 - 120
	7488547	EMT	Method Blank	Orthophosphate (P)	2021/07/29	<0.010		mg/L	
	7488547	EMT	RPD	Orthophosphate (P)	2021/07/29	3.6		%	20
	7488561	EMT	Matrix Spike	Nitrate + Nitrite (N)	2021/07/29		21 (4)	%	80 - 120
	7488561	EMT	Spiked Blank	Nitrate + Nitrite (N)	2021/07/29		91	%	80 - 120
	7488561	EMT	Method Blank	Nitrate + Nitrite (N)	2021/07/29	<0.050		mg/L	
	7488561	EMT	RPD	Nitrate + Nitrite (N)	2021/07/29	2.1		%	20
	7488567	EMT	Matrix Spike	Nitrite (N)	2021/07/29		43 (5)	%	80 - 120
	7488567	EMT	Spiked Blank	Nitrite (N)	2021/07/29		99	%	80 - 120
	7488567	EMT	Method Blank	Nitrite (N)	2021/07/29	<0.010		mg/L	
	7488567	EMT	RPD	Nitrite (N)	2021/07/29	NC		%	20
	7488749	EMT	Matrix Spike	Nitrite (N)	2021/07/29		94	%	80 - 120
	7488749	EMT	Spiked Blank	Nitrite (N)	2021/07/29		103	%	80 - 120
	7488749	EMT	Method Blank	Nitrite (N)	2021/07/29	<0.010		mg/L	
	7488749	EMT	RPD	Nitrite (N)	2021/07/29	NC		%	20
	7488777	EMT	Matrix Spike	Total Alkalinity (Total as CaCO3)	2021/07/29		97	%	80 - 120
	7488777	EMT	Spiked Blank	Total Alkalinity (Total as CaCO3)	2021/07/29		105	%	80 - 120
	7488777	EMT	Method Blank	Total Alkalinity (Total as CaCO3)	2021/07/29	<5.0		mg/L	
	7488777	EMT	RPD	Total Alkalinity (Total as CaCO3)	2021/07/29	3.1		%	20
	7488780	EMT	Matrix Spike	Dissolved Chloride (Cl-)	2021/07/29		94	%	80 - 120
	7488780	EMT	Spiked Blank	Dissolved Chloride (Cl-)	2021/07/29		97	%	80 - 120
	7488780	EMT	Method Blank	Dissolved Chloride (Cl-)	2021/07/29	<1.0		mg/L	
	7488780	EMT	RPD	Dissolved Chloride (Cl-)	2021/07/29	0.027		%	20
	7488784	EMT	Matrix Spike	Dissolved Sulphate (SO4)	2021/07/29		97	%	80 - 120
	7488784	EMT	Spiked Blank	Dissolved Sulphate (SO4)	2021/07/29		97	%	80 - 120
	7488784	EMT	Method Blank	Dissolved Sulphate (SO4)	2021/07/29	<2.0		mg/L	
	7488784	EMT	RPD	Dissolved Sulphate (SO4)	2021/07/29	14		%	20
	7488791	EMT	Matrix Spike	Reactive Silica (SiO2)	2021/07/29		NC	%	80 - 120
	7488791	EMT	Spiked Blank	Reactive Silica (SiO2)	2021/07/29		94	%	80 - 120
	7488791	EMT	Method Blank	Reactive Silica (SiO2)	2021/07/29	<0.50		mg/L	
	7488791	EMT	RPD	Reactive Silica (SiO2)	2021/07/29	1.1		%	20
	7488793	EMT	Spiked Blank	Colour	2021/07/29		101	%	80 - 120
	7488793	EMT	Method Blank	Colour	2021/07/29	<5.0		TCU	
	7488793	EMT	RPD	Colour	2021/07/29	NC		%	20
	7488795	EMT	Matrix Spike	Orthophosphate (P)	2021/07/29		92	%	80 - 120
	7488795	EMT	Spiked Blank	Orthophosphate (P)	2021/07/29		100	%	80 - 120
	7488795	EMT	Method Blank	Orthophosphate (P)	2021/07/29	<0.010		mg/L	
	7488795	EMT	RPD	Orthophosphate (P)	2021/07/29	NC		%	20
	7488798	EMT	Matrix Spike	Nitrate + Nitrite (N)	2021/07/29		94	%	80 - 120
	7488798	EMT	Spiked Blank	Nitrate + Nitrite (N)	2021/07/29		95	%	80 - 120
	7488798	EMT	Method Blank	Nitrate + Nitrite (N)	2021/07/29	<0.050		mg/L	
	7488798	EMT	RPD	Nitrate + Nitrite (N)	2021/07/29	4.2		%	20
	7490075	SHW	Spiked Blank	Conductivity	2021/07/29		100	%	80 - 120
	7490075	SHW	Method Blank	Conductivity	2021/07/29	<1.0		uS/cm	
	7490075	SHW	RPD	Conductivity	2021/07/29	0.99		%	10
	7490076	SHW	Spiked Blank	pH	2021/07/29		100	%	97 - 103
	7490076	SHW	RPD	pH	2021/07/29	0.88		%	N/A



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7490077	SHW	Spiked Blank	Conductivity	2021/07/29		100	%	80 - 120
7490077	SHW	Method Blank	Conductivity	2021/07/29	<1.0		uS/cm	
7490077	SHW	RPD	Conductivity	2021/07/29	1.5		%	10
7490078	SHW	Spiked Blank	pH	2021/07/29		100	%	97 - 103
7490078	SHW	RPD	pH	2021/07/29	0.21		%	N/A
7490108	SHW	QC Standard	Turbidity	2021/07/29		106	%	80 - 120
7490108	SHW	Spiked Blank	Turbidity	2021/07/29		105	%	80 - 120
7490108	SHW	Method Blank	Turbidity	2021/07/29	<0.10		NTU	
7490108	SHW	RPD	Turbidity	2021/07/29	5.0		%	20
7490154	EMT	Matrix Spike [QES365-01]	Total Alkalinity (Total as CaCO ₃)	2021/07/29		98	%	80 - 120
7490154	EMT	Spiked Blank	Total Alkalinity (Total as CaCO ₃)	2021/07/29		103	%	80 - 120
7490154	EMT	Method Blank	Total Alkalinity (Total as CaCO ₃)	2021/07/29	<5.0		mg/L	
7490154	EMT	RPD [QES365-01]	Total Alkalinity (Total as CaCO ₃)	2021/07/29	NC		%	20
7490155	EMT	Matrix Spike [QES365-01]	Dissolved Chloride (Cl ⁻)	2021/07/29		98	%	80 - 120
7490155	EMT	Spiked Blank	Dissolved Chloride (Cl ⁻)	2021/07/29		98	%	80 - 120
7490155	EMT	Method Blank	Dissolved Chloride (Cl ⁻)	2021/07/29	<1.0		mg/L	
7490155	EMT	RPD [QES365-01]	Dissolved Chloride (Cl ⁻)	2021/07/29	2.7		%	20
7490163	EMT	Matrix Spike [QES365-01]	Dissolved Sulphate (SO ₄)	2021/07/29		98	%	80 - 120
7490163	EMT	Spiked Blank	Dissolved Sulphate (SO ₄)	2021/07/29		97	%	80 - 120
7490163	EMT	Method Blank	Dissolved Sulphate (SO ₄)	2021/07/29	<2.0		mg/L	
7490163	EMT	RPD [QES365-01]	Dissolved Sulphate (SO ₄)	2021/07/29	3.7		%	20
7490167	EMT	Matrix Spike [QES365-01]	Reactive Silica (SiO ₂)	2021/07/29		101	%	80 - 120
7490167	EMT	Spiked Blank	Reactive Silica (SiO ₂)	2021/07/29		99	%	80 - 120
7490167	EMT	Method Blank	Reactive Silica (SiO ₂)	2021/07/29	<0.50		mg/L	
7490167	EMT	RPD [QES365-01]	Reactive Silica (SiO ₂)	2021/07/29	6.0		%	20
7490176	NGI	Matrix Spike [QES374-04]	Total Organic Carbon (C)	2021/07/29		NC	%	85 - 115
7490176	NGI	Spiked Blank	Total Organic Carbon (C)	2021/07/29		100	%	80 - 120
7490176	NGI	Method Blank	Total Organic Carbon (C)	2021/07/29	<0.50		mg/L	
7490176	NGI	RPD [QES374-04]	Total Organic Carbon (C)	2021/07/29	2.0		%	15
7490180	NGI	Matrix Spike	Dissolved Organic Carbon (C)	2021/07/29		96	%	85 - 115
7490180	NGI	Spiked Blank	Dissolved Organic Carbon (C)	2021/07/29		101	%	80 - 120
7490180	NGI	Method Blank	Dissolved Organic Carbon (C)	2021/07/29	<0.50		mg/L	
7490180	NGI	RPD	Dissolved Organic Carbon (C)	2021/07/29	1.1		%	15
7490181	EMT	Spiked Blank	Colour	2021/07/29		109	%	80 - 120
7490181	EMT	Method Blank	Colour	2021/07/29	<5.0		TCU	
7490181	EMT	RPD [QES365-01]	Colour	2021/07/29	3.3		%	20
7490183	EMT	Matrix Spike [QES365-01]	Orthophosphate (P)	2021/07/29		102	%	80 - 120
7490183	EMT	Spiked Blank	Orthophosphate (P)	2021/07/29		90	%	80 - 120
7490183	EMT	Method Blank	Orthophosphate (P)	2021/07/29	<0.010		mg/L	
7490183	EMT	RPD [QES365-01]	Orthophosphate (P)	2021/07/29	1.4		%	20
7490186	EMT	Matrix Spike [QES365-01]	Nitrate + Nitrite (N)	2021/07/29		92	%	80 - 120
7490186	EMT	Spiked Blank	Nitrate + Nitrite (N)	2021/07/29		92	%	80 - 120
7490186	EMT	Method Blank	Nitrate + Nitrite (N)	2021/07/29	<0.050		mg/L	
7490186	EMT	RPD [QES365-01]	Nitrate + Nitrite (N)	2021/07/29	NC		%	20
7490187	EMT	Matrix Spike [QES365-01]	Nitrite (N)	2021/07/29		82	%	80 - 120
7490187	EMT	Spiked Blank	Nitrite (N)	2021/07/29		100	%	80 - 120
7490187	EMT	Method Blank	Nitrite (N)	2021/07/29	<0.010		mg/L	
7490187	EMT	RPD [QES365-01]	Nitrite (N)	2021/07/29	NC		%	20
7490673	EMT	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2021/07/29		102	%	80 - 120
7490673	EMT	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2021/07/29		105	%	80 - 120
7490673	EMT	Method Blank	Nitrogen (Ammonia Nitrogen)	2021/07/29	<0.050		mg/L	
7490673	EMT	RPD	Nitrogen (Ammonia Nitrogen)	2021/07/29	NC		%	20
7490710	EMT	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2021/07/29		99	%	80 - 120

BV Labs - Partial/Rush Results



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
	7490710	EMT	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2021/07/29		108	%	80 - 120
	7490710	EMT	Method Blank	Nitrogen (Ammonia Nitrogen)	2021/07/29	<0.050		mg/L	
	7490710	EMT	RPD	Nitrogen (Ammonia Nitrogen)	2021/07/29	NC		%	20
	7490947	BAN	Matrix Spike	Dissolved Aluminum (Al)	2021/07/30		103	%	80 - 120
				Dissolved Antimony (Sb)	2021/07/30		104	%	80 - 120
				Dissolved Arsenic (As)	2021/07/30		98	%	80 - 120
				Dissolved Barium (Ba)	2021/07/30		100	%	80 - 120
				Dissolved Beryllium (Be)	2021/07/30		104	%	80 - 120
				Dissolved Bismuth (Bi)	2021/07/30		97	%	80 - 120
				Dissolved Boron (B)	2021/07/30		99	%	80 - 120
				Dissolved Cadmium (Cd)	2021/07/30		104	%	80 - 120
				Dissolved Calcium (Ca)	2021/07/30		NC	%	80 - 120
				Dissolved Chromium (Cr)	2021/07/30		99	%	80 - 120
				Dissolved Cobalt (Co)	2021/07/30		98	%	80 - 120
				Dissolved Copper (Cu)	2021/07/30		98	%	80 - 120
				Dissolved Iron (Fe)	2021/07/30		101	%	80 - 120
				Dissolved Lead (Pb)	2021/07/30		101	%	80 - 120
				Dissolved Magnesium (Mg)	2021/07/30		101	%	80 - 120
				Dissolved Manganese (Mn)	2021/07/30		NC	%	80 - 120
				Dissolved Molybdenum (Mo)	2021/07/30		106	%	80 - 120
				Dissolved Nickel (Ni)	2021/07/30		97	%	80 - 120
				Dissolved Phosphorus (P)	2021/07/30		106	%	80 - 120
				Dissolved Potassium (K)	2021/07/30		100	%	80 - 120
				Dissolved Selenium (Se)	2021/07/30		103	%	80 - 120
				Dissolved Silver (Ag)	2021/07/30		99	%	80 - 120
				Dissolved Sodium (Na)	2021/07/30		NC	%	80 - 120
				Dissolved Strontium (Sr)	2021/07/30		NC	%	80 - 120
				Dissolved Thallium (Tl)	2021/07/30		100	%	80 - 120
				Dissolved Tin (Sn)	2021/07/30		104	%	80 - 120
				Dissolved Titanium (Ti)	2021/07/30		104	%	80 - 120
				Dissolved Uranium (U)	2021/07/30		108	%	80 - 120
				Dissolved Vanadium (V)	2021/07/30		103	%	80 - 120
				Dissolved Zinc (Zn)	2021/07/30		99	%	80 - 120
	7490947	BAN	Spiked Blank	Dissolved Aluminum (Al)	2021/07/29		88	%	80 - 120
				Dissolved Antimony (Sb)	2021/07/29		93	%	80 - 120
				Dissolved Arsenic (As)	2021/07/29		93	%	80 - 120
				Dissolved Barium (Ba)	2021/07/29		92	%	80 - 120
				Dissolved Beryllium (Be)	2021/07/29		85	%	80 - 120
				Dissolved Bismuth (Bi)	2021/07/29		94	%	80 - 120
				Dissolved Boron (B)	2021/07/29		80	%	80 - 120
				Dissolved Cadmium (Cd)	2021/07/29		85	%	80 - 120
				Dissolved Calcium (Ca)	2021/07/29		95	%	80 - 120
				Dissolved Chromium (Cr)	2021/07/29		98	%	80 - 120
				Dissolved Cobalt (Co)	2021/07/29		96	%	80 - 120
				Dissolved Copper (Cu)	2021/07/29		97	%	80 - 120
				Dissolved Iron (Fe)	2021/07/29		100	%	80 - 120
				Dissolved Lead (Pb)	2021/07/29		95	%	80 - 120
				Dissolved Magnesium (Mg)	2021/07/29		106	%	80 - 120
				Dissolved Manganese (Mn)	2021/07/29		97	%	80 - 120
				Dissolved Molybdenum (Mo)	2021/07/29		99	%	80 - 120
				Dissolved Nickel (Ni)	2021/07/29		97	%	80 - 120
				Dissolved Phosphorus (P)	2021/07/29		101	%	80 - 120
				Dissolved Potassium (K)	2021/07/29		96	%	80 - 120

BV Labs - Partial/Rush Results



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7490947	BAN	Method Blank		Dissolved Selenium (Se)	2021/07/29		99	%	80 - 120
				Dissolved Silver (Ag)	2021/07/29		94	%	80 - 120
				Dissolved Sodium (Na)	2021/07/29		100	%	80 - 120
				Dissolved Strontium (Sr)	2021/07/29		94	%	80 - 120
				Dissolved Thallium (Tl)	2021/07/29		95	%	80 - 120
				Dissolved Tin (Sn)	2021/07/29		94	%	80 - 120
				Dissolved Titanium (Ti)	2021/07/29		101	%	80 - 120
				Dissolved Uranium (U)	2021/07/29		100	%	80 - 120
				Dissolved Vanadium (V)	2021/07/29		99	%	80 - 120
				Dissolved Zinc (Zn)	2021/07/29		99	%	80 - 120
				Dissolved Aluminum (Al)	2021/07/29	<5.0		ug/L	
				Dissolved Antimony (Sb)	2021/07/29	<1.0		ug/L	
				Dissolved Arsenic (As)	2021/07/29	<1.0		ug/L	
				Dissolved Barium (Ba)	2021/07/29	<1.0		ug/L	
				Dissolved Beryllium (Be)	2021/07/29	<1.0		ug/L	
				Dissolved Bismuth (Bi)	2021/07/29	<2.0		ug/L	
				Dissolved Boron (B)	2021/07/29	<50		ug/L	
				Dissolved Cadmium (Cd)	2021/07/29	<0.010		ug/L	
				Dissolved Calcium (Ca)	2021/07/29	<100		ug/L	
				Dissolved Chromium (Cr)	2021/07/29	<1.0		ug/L	
				Dissolved Cobalt (Co)	2021/07/29	<0.40		ug/L	
				Dissolved Copper (Cu)	2021/07/29	<0.50		ug/L	
				Dissolved Iron (Fe)	2021/07/29	<50		ug/L	
				Dissolved Lead (Pb)	2021/07/29	<0.50		ug/L	
				Dissolved Magnesium (Mg)	2021/07/29	<100		ug/L	
				Dissolved Manganese (Mn)	2021/07/29	<2.0		ug/L	
				Dissolved Molybdenum (Mo)	2021/07/29	<2.0		ug/L	
				Dissolved Nickel (Ni)	2021/07/29	<2.0		ug/L	
				Dissolved Phosphorus (P)	2021/07/29	<100		ug/L	
				Dissolved Potassium (K)	2021/07/29	<100		ug/L	
				Dissolved Selenium (Se)	2021/07/29	<0.50		ug/L	
				Dissolved Silver (Ag)	2021/07/29	<0.10		ug/L	
				Dissolved Sodium (Na)	2021/07/29	<100		ug/L	
				Dissolved Strontium (Sr)	2021/07/29	<2.0		ug/L	
				Dissolved Thallium (Tl)	2021/07/29	<0.10		ug/L	
				Dissolved Tin (Sn)	2021/07/29	<2.0		ug/L	
				Dissolved Titanium (Ti)	2021/07/29	<2.0		ug/L	
				Dissolved Uranium (U)	2021/07/29	<0.10		ug/L	
				Dissolved Vanadium (V)	2021/07/29	<2.0		ug/L	
				Dissolved Zinc (Zn)	2021/07/29	<5.0		ug/L	
7490947	BAN	RPD		Dissolved Aluminum (Al)	2021/07/30	4.5		%	20
				Dissolved Antimony (Sb)	2021/07/30	NC		%	20
				Dissolved Arsenic (As)	2021/07/30	0.21		%	20
				Dissolved Barium (Ba)	2021/07/30	0.31		%	20
				Dissolved Beryllium (Be)	2021/07/30	NC		%	20
				Dissolved Bismuth (Bi)	2021/07/30	NC		%	20
				Dissolved Boron (B)	2021/07/30	NC		%	20
				Dissolved Cadmium (Cd)	2021/07/30	NC		%	20
				Dissolved Calcium (Ca)	2021/07/30	0.45		%	20
				Dissolved Chromium (Cr)	2021/07/30	NC		%	20
				Dissolved Cobalt (Co)	2021/07/30	NC		%	20
				Dissolved Copper (Cu)	2021/07/30	NC		%	20
				Dissolved Iron (Fe)	2021/07/30	NC		%	20

BV Labs - Partial/Rush Results



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Lead (Pb)	2021/07/30	NC		%	20
			Dissolved Magnesium (Mg)	2021/07/30	0.16		%	20
			Dissolved Manganese (Mn)	2021/07/30	0.59		%	20
			Dissolved Molybdenum (Mo)	2021/07/30	6.8		%	20
			Dissolved Nickel (Ni)	2021/07/30	0.27		%	20
			Dissolved Phosphorus (P)	2021/07/30	NC		%	20
			Dissolved Potassium (K)	2021/07/30	0.014		%	20
			Dissolved Selenium (Se)	2021/07/30	NC		%	20
			Dissolved Silver (Ag)	2021/07/30	NC		%	20
			Dissolved Sodium (Na)	2021/07/30	0.29		%	20
			Dissolved Strontium (Sr)	2021/07/30	0.070		%	20
			Dissolved Thallium (Tl)	2021/07/30	NC		%	20
			Dissolved Tin (Sn)	2021/07/30	NC		%	20
			Dissolved Titanium (Ti)	2021/07/30	NC		%	20
			Dissolved Uranium (U)	2021/07/30	0.54		%	20
			Dissolved Vanadium (V)	2021/07/30	NC		%	20
			Dissolved Zinc (Zn)	2021/07/30	NC		%	20
7493211	MLB	Matrix Spike	Total Copper (Cu)	2021/08/03		102	%	80 - 120
7493211	MLB	Spiked Blank	Total Copper (Cu)	2021/08/03		103	%	80 - 120
7493211	MLB	Method Blank	Total Copper (Cu)	2021/08/03	<0.00050		mg/L	
7493211	MLB	RPD	Total Copper (Cu)	2021/08/03	NC		%	20
7497011	BAN	Matrix Spike	Dissolved Aluminum (Al)	2021/08/03		103	%	80 - 120
			Dissolved Antimony (Sb)	2021/08/03		101	%	80 - 120
			Dissolved Arsenic (As)	2021/08/03		98	%	80 - 120
			Dissolved Barium (Ba)	2021/08/03		97	%	80 - 120
			Dissolved Beryllium (Be)	2021/08/03		103	%	80 - 120
			Dissolved Bismuth (Bi)	2021/08/03		96	%	80 - 120
			Dissolved Boron (B)	2021/08/03		98	%	80 - 120
			Dissolved Cadmium (Cd)	2021/08/03		100	%	80 - 120
			Dissolved Calcium (Ca)	2021/08/03		NC	%	80 - 120
			Dissolved Chromium (Cr)	2021/08/03		99	%	80 - 120
			Dissolved Cobalt (Co)	2021/08/03		99	%	80 - 120
			Dissolved Copper (Cu)	2021/08/03		98	%	80 - 120
			Dissolved Iron (Fe)	2021/08/03		NC	%	80 - 120
			Dissolved Lead (Pb)	2021/08/03		98	%	80 - 120
			Dissolved Magnesium (Mg)	2021/08/03		94	%	80 - 120
			Dissolved Manganese (Mn)	2021/08/03		NC	%	80 - 120
			Dissolved Molybdenum (Mo)	2021/08/03		105	%	80 - 120
			Dissolved Nickel (Ni)	2021/08/03		98	%	80 - 120
			Dissolved Phosphorus (P)	2021/08/03		106	%	80 - 120
			Dissolved Potassium (K)	2021/08/03		104	%	80 - 120
			Dissolved Selenium (Se)	2021/08/03		103	%	80 - 120
			Dissolved Silver (Ag)	2021/08/03		81	%	80 - 120
			Dissolved Sodium (Na)	2021/08/03		NC	%	80 - 120
			Dissolved Strontium (Sr)	2021/08/03		NC	%	80 - 120
			Dissolved Thallium (Tl)	2021/08/03		98	%	80 - 120
			Dissolved Tin (Sn)	2021/08/03		102	%	80 - 120
			Dissolved Titanium (Ti)	2021/08/03		104	%	80 - 120
			Dissolved Uranium (U)	2021/08/03		105	%	80 - 120
			Dissolved Vanadium (V)	2021/08/03		102	%	80 - 120
			Dissolved Zinc (Zn)	2021/08/03		100	%	80 - 120
7497011	BAN	Spiked Blank	Dissolved Aluminum (Al)	2021/08/03		102	%	80 - 120
			Dissolved Antimony (Sb)	2021/08/03		98	%	80 - 120

BV Labs - Partial/Rush Results



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Anaconda Mining Inc
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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Dissolved Arsenic (As)	2021/08/03		97	%	80 - 120
				Dissolved Barium (Ba)	2021/08/03		100	%	80 - 120
				Dissolved Beryllium (Be)	2021/08/03		103	%	80 - 120
				Dissolved Bismuth (Bi)	2021/08/03		99	%	80 - 120
				Dissolved Boron (B)	2021/08/03		97	%	80 - 120
				Dissolved Cadmium (Cd)	2021/08/03		100	%	80 - 120
				Dissolved Calcium (Ca)	2021/08/03		101	%	80 - 120
				Dissolved Chromium (Cr)	2021/08/03		102	%	80 - 120
				Dissolved Cobalt (Co)	2021/08/03		102	%	80 - 120
				Dissolved Copper (Cu)	2021/08/03		102	%	80 - 120
				Dissolved Iron (Fe)	2021/08/03		102	%	80 - 120
				Dissolved Lead (Pb)	2021/08/03		100	%	80 - 120
				Dissolved Magnesium (Mg)	2021/08/03		105	%	80 - 120
				Dissolved Manganese (Mn)	2021/08/03		103	%	80 - 120
				Dissolved Molybdenum (Mo)	2021/08/03		104	%	80 - 120
				Dissolved Nickel (Ni)	2021/08/03		102	%	80 - 120
				Dissolved Phosphorus (P)	2021/08/03		105	%	80 - 120
				Dissolved Potassium (K)	2021/08/03		104	%	80 - 120
				Dissolved Selenium (Se)	2021/08/03		102	%	80 - 120
				Dissolved Silver (Ag)	2021/08/03		99	%	80 - 120
				Dissolved Sodium (Na)	2021/08/03		103	%	80 - 120
				Dissolved Strontium (Sr)	2021/08/03		100	%	80 - 120
				Dissolved Thallium (Tl)	2021/08/03		100	%	80 - 120
				Dissolved Tin (Sn)	2021/08/03		101	%	80 - 120
				Dissolved Titanium (Ti)	2021/08/03		103	%	80 - 120
				Dissolved Uranium (U)	2021/08/03		103	%	80 - 120
				Dissolved Vanadium (V)	2021/08/03		103	%	80 - 120
				Dissolved Zinc (Zn)	2021/08/03		102	%	80 - 120
7497011	BAN		Method Blank	Dissolved Aluminum (Al)	2021/08/03	<5.0		ug/L	
				Dissolved Antimony (Sb)	2021/08/03	<1.0		ug/L	
				Dissolved Arsenic (As)	2021/08/03	<1.0		ug/L	
				Dissolved Barium (Ba)	2021/08/03	<1.0		ug/L	
				Dissolved Beryllium (Be)	2021/08/03	<1.0		ug/L	
				Dissolved Bismuth (Bi)	2021/08/03	<2.0		ug/L	
				Dissolved Boron (B)	2021/08/03	<50		ug/L	
				Dissolved Cadmium (Cd)	2021/08/03	<0.010		ug/L	
				Dissolved Calcium (Ca)	2021/08/03	<100		ug/L	
				Dissolved Chromium (Cr)	2021/08/03	<1.0		ug/L	
				Dissolved Cobalt (Co)	2021/08/03	<0.40		ug/L	
				Dissolved Copper (Cu)	2021/08/03	<0.50		ug/L	
				Dissolved Iron (Fe)	2021/08/03	<50		ug/L	
				Dissolved Lead (Pb)	2021/08/03	<0.50		ug/L	
				Dissolved Magnesium (Mg)	2021/08/03	<100		ug/L	
				Dissolved Manganese (Mn)	2021/08/03	<2.0		ug/L	
				Dissolved Molybdenum (Mo)	2021/08/03	<2.0		ug/L	
				Dissolved Nickel (Ni)	2021/08/03	<2.0		ug/L	
				Dissolved Phosphorus (P)	2021/08/03	<100		ug/L	
				Dissolved Potassium (K)	2021/08/03	<100		ug/L	
				Dissolved Selenium (Se)	2021/08/03	<0.50		ug/L	
				Dissolved Silver (Ag)	2021/08/03	<0.10		ug/L	
				Dissolved Sodium (Na)	2021/08/03	<100		ug/L	
				Dissolved Strontium (Sr)	2021/08/03	<2.0		ug/L	
				Dissolved Thallium (Tl)	2021/08/03	<0.10		ug/L	

BV Labs - Partial/Rush Results



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7497011	BAN	RPD	Dissolved Tin (Sn)	2021/08/03	<2.0		ug/L	
			Dissolved Titanium (Ti)	2021/08/03	<2.0		ug/L	
			Dissolved Uranium (U)	2021/08/03	<0.10		ug/L	
			Dissolved Vanadium (V)	2021/08/03	<2.0		ug/L	
			Dissolved Zinc (Zn)	2021/08/03	<5.0		ug/L	
			Dissolved Aluminum (Al)	2021/08/03	0.26		%	20
			Dissolved Antimony (Sb)	2021/08/03	NC		%	20
			Dissolved Arsenic (As)	2021/08/03	NC		%	20
			Dissolved Barium (Ba)	2021/08/03	1.5		%	20
			Dissolved Beryllium (Be)	2021/08/03	NC		%	20
			Dissolved Bismuth (Bi)	2021/08/03	NC		%	20
			Dissolved Boron (B)	2021/08/03	1.1		%	20
			Dissolved Cadmium (Cd)	2021/08/03	7.2		%	20
			Dissolved Calcium (Ca)	2021/08/03	0.50		%	20
			Dissolved Chromium (Cr)	2021/08/03	NC		%	20
			Dissolved Cobalt (Co)	2021/08/03	1.6		%	20
			Dissolved Copper (Cu)	2021/08/03	NC		%	20
			Dissolved Iron (Fe)	2021/08/03	0.64		%	20
			Dissolved Lead (Pb)	2021/08/03	NC		%	20
			Dissolved Magnesium (Mg)	2021/08/03	0.76		%	20
			Dissolved Manganese (Mn)	2021/08/03	0.010		%	20
			Dissolved Molybdenum (Mo)	2021/08/03	NC		%	20
			Dissolved Nickel (Ni)	2021/08/03	4.3		%	20
			Dissolved Phosphorus (P)	2021/08/03	NC		%	20
			Dissolved Potassium (K)	2021/08/03	0.20		%	20
			Dissolved Selenium (Se)	2021/08/03	NC		%	20
			Dissolved Silver (Ag)	2021/08/03	NC		%	20
			Dissolved Sodium (Na)	2021/08/03	0.62		%	20
			Dissolved Strontium (Sr)	2021/08/03	1.4		%	20
			Dissolved Thallium (Tl)	2021/08/03	NC		%	20
			Dissolved Tin (Sn)	2021/08/03	NC		%	20
			Dissolved Titanium (Ti)	2021/08/03	11		%	20
			Dissolved Uranium (U)	2021/08/03	0.61		%	20
			Dissolved Vanadium (V)	2021/08/03	NC		%	20

BV Labs - Partial/Rush Results



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Dissolved Zinc (Zn)	2021/08/03	6.2		%	20
N/A = Not Applicable									
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.									
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.									
QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.									
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.									
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.									
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)									
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference $\leq 2 \times \text{RDL}$).									
(1) Low level lab contamination.									
(2) Poor spike recovery due to sample matrix.									
(3) Poor spike recovery due to sample matrix, recovery confirmed with repeat analysis.									
(4) Poor spike recovery due to sample matrix, recovery confirmed with repeat prep and analysis.									
(5) Poor spike recovery due to sample matrix									

BV Labs - Partial/Rush Results



BV Labs Job #: C1K8034
Report Date: 2021/08/04

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Eric Dearman, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

BV Labs - Partial/Rush Results



DALHOUSIE
UNIVERSITY

Inspiring Minds

Department of Oceanography
1355 Oxford St
Halifax, NS
B3H 4R2

Determination of chlorophyll a by fluorescence

Client: Bureau Veritas Laboratories, 200 Bluewater Road, Bedford, NS, B4B 1G9

Attention: Maryann Comeau

Received: 2021-07-27

Project #: C1K8034

Completed: 2021-08-03

Hugh MacIntyre

Hugh MacIntyre, Ph.D.

Chl *a* (chlorophyll *a* ; $\mu\text{g L}^{-1}$) determined by the acidification method (Holm-Hansen et al., 1965). Estimates made with the non-acidification method (Welschmeyer, 1994) are shown for comparison.

The non-acidification method is considered more reliable than the acidification method in correcting for bias due to the contributions of chlorophyll *b* and chlorophyll degradation products.

Holm-Hansen O, Lorenzen CJ, Holmes RW, Strickland JDH (1965) Fluorometric determination of chlorophyll.

J Conseil 30:3-15

Welschmeyer NA (1994) Fluorometric analysis of chlorophyll *a* in the presence of chlorophyll *b* and phaeopigments.

Limnol Oceanogr 39:1985-1992

Contractor ID	Client ID	Chl <i>a</i> (acidification)	Chl <i>a</i> (non-acidification)
QES365-09R	SW-11-21	3.72	6.73
QES366-09R	SW-12-21	1.08	1.25
QES367-09R	SW-13-21	0.721	0.762
QES368-09R	SW-14-21	0.323	0.41
QES369-09R	SW-15-21	1.91	1.82
QES370-09R	SW-16-21	0.284	0.348
QES371-09R	SW-17-21	0.662	0.733
QES372-09R	SW-18-21	5.84	6.82
QES373-09R	SW-19-21	17.8	31.4

Contractor ID	Client ID	Chl a (acidification)	Chl a (non-acidification)
QES374-09R	SW-20-21	0.941	0.934
QES377-09R	SWDUPA	3.17	2.68

**Attention: Derek Bullock**

Anaconda Mining Inc
 Goldboro Gold Mine
 570 Goldbrook Road
 Goldboro, NS
 Canada BOH 1L0

Your P.O. #: 0267
 Your Project #: GOLDBORO SURFACE WATER
 Site Location: GOLDBORO
 Your C.O.C. #: N/A

Report Date: 2021/09/14
 Report #: R6809426
 Version: 2 - Final

CERTIFICATE OF ANALYSIS**BV LABS JOB #: C1N9184****Received: 2021/08/23, 11:19**

Sample Matrix: Water
 # Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Carbonate, Bicarbonate and Hydroxide	11	N/A	2021/08/26	N/A	SM 23 4500-CO2 D
Alkalinity	11	N/A	2021/09/08	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	11	N/A	2021/09/08	ATL SOP 00014	SM 23 4500-Cl- E m
Colour	11	N/A	2021/09/08	ATL SOP 00020	SM 23 2120C m
Organic carbon - Diss (DOC) (3)	9	N/A	2021/08/25	ATL SOP 00203	SM 23 5310B m
Organic carbon - Diss (DOC) (3)	2	N/A	2021/08/27	ATL SOP 00203	SM 23 5310B m
Conductance - water	11	N/A	2021/08/26	ATL SOP 00004	SM 23 2510B m
Hardness (calculated as CaCO3)	11	N/A	2021/08/26	ATL SOP 00048	Auto Calc
Mercury - Dissolved (CVAA,LL)	8	2021/08/26	2021/08/26	ATL SOP 00026	EPA 245.1 R3 m
Mercury - Dissolved (CVAA,LL)	3	2021/08/27	2021/08/27	ATL SOP 00026	EPA 245.1 R3 m
Mercury - Total (CVAA,LL)	11	2021/08/26	2021/08/26	ATL SOP 00026	EPA 245.1 R3 m
Metals Water Diss. MS (as rec'd)	11	N/A	2021/08/25	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	3	2021/08/24	2021/08/25	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	8	2021/08/24	2021/08/26	ATL SOP 00058	EPA 6020B R2 m
Ion Balance (% Difference)	11	N/A	2021/09/09	N/A	Auto Calc.
Anion and Cation Sum	11	N/A	2021/09/08	N/A	Auto Calc.
Nitrogen Ammonia - water	11	N/A	2021/09/07	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	11	N/A	2021/09/08	ATL SOP 00016	USGS I-2547-11m
Nitrogen - Nitrite	11	N/A	2021/09/08	ATL SOP 00017	SM 23 4500-NO2- B m
Nitrogen - Nitrate (as N)	11	N/A	2021/09/09	ATL SOP 00018	ASTM D3867-16
pH (4)	11	N/A	2021/08/26	ATL SOP 00003	SM 23 4500-H+ B m
Phosphorus - ortho	11	N/A	2021/09/08	ATL SOP 00021	SM 23 4500-P E m
Sat. pH and Langelier Index (@ 20C)	11	N/A	2021/09/09	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	11	N/A	2021/09/09	ATL SOP 00049	Auto Calc.
Reactive Silica	11	N/A	2021/09/08	ATL SOP 00022	EPA 366.0 m
Sulphate	11	N/A	2021/09/08	ATL SOP 00023	ASTM D516-16 m
Chlorophyll A (Sub from Bedford) (1)	11	2021/08/24	2021/08/27		
Methyl Mercury (sub from Bedford) (2)	11	N/A	2021/09/02		EPA 1630
Total Dissolved Solids (TDS calc)	11	N/A	2021/09/09	N/A	Auto Calc.
Organic carbon - Total (TOC) (3)	2	N/A	2021/08/26	ATL SOP 00203	SM 23 5310B m
Organic carbon - Total (TOC) (3)	9	N/A	2021/08/27	ATL SOP 00203	SM 23 5310B m



Your P.O. #: 0267
Your Project #: GOLDBORO SURFACE WATER
Site Location: GOLDBORO
Your C.O.C. #: N/A

Attention: Derek Bullock

Anaconda Mining Inc
Goldboro Gold Mine
570 Goldbrook Road
Goldboro, NS
Canada BOH 1L0

Report Date: 2021/09/14
Report #: R6809426
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1N9184

Received: 2021/08/23, 11:19

Sample Matrix: Water
Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Turbidity	11	N/A	2021/08/25	ATL SOP 00011	EPA 180.1 R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Dalhousie Dept of Oceanography

(2) This test was performed by Sub Bedford to Flett Research

(3) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

(4) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.



Attention: Derek Bullock

Anaconda Mining Inc
Goldboro Gold Mine
570 Goldbrook Road
Goldboro, NS
Canada BOH 1L0

Your P.O. #: 0267
Your Project #: GOLDBORO SURFACE WATER
Site Location: GOLDBORO
Your C.O.C. #: N/A

Report Date: 2021/09/14
Report #: R6809426
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1N9184

Received: 2021/08/23, 11:19

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

14 Sep 2021 08:21:51

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Maryann Comeau, Customer Experience Supervisor/PM

Email: Maryann.COMEAU@bureauveritas.com

Phone# (902)420-0203 Ext:298

=====

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BV Labs Job #: C1N9184
Report Date: 2021/09/14

Anaconda Mining Inc
Client Project #: GOLDBORO SURFACE WATER
Site Location: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

RESULTS OF ANALYSES OF WATER

BV Labs ID		QLH269			QLH270		QLH271		
Sampling Date		2021/08/20 09:38			2021/08/19 19:35		2021/08/19 18:50		
COC Number		N/A			N/A		N/A		
	UNITS	SW-11-21	RDL	QC Batch	SW-12-21	RDL	SW-13-21	RDL	QC Batch
Calculated Parameters									
Anion Sum	me/L	0.220	N/A	7535160	0.150	N/A	0.190	N/A	7535160
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7535157	<1.0	1.0	<1.0	1.0	7535157
Calculated TDS	mg/L	22	1.0	7535165	11	1.0	21	1.0	7535165
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7535157	<1.0	1.0	<1.0	1.0	7535157
Cation Sum	me/L	0.430	N/A	7535160	0.240	N/A	0.430	N/A	7535160
Hardness (CaCO ₃)	mg/L	7.3	1.0	7535980	2.9	1.0	5.8	1.0	7535980
Ion Balance (% Difference)	%	32.3	N/A	7535159	23.1	N/A	38.7	N/A	7535159
Langelier Index (@ 20C)	N/A	NC		7535162	NC		NC		7535162
Langelier Index (@ 4C)	N/A	NC		7535164	NC		NC		7535164
Nitrate (N)	mg/L	<0.050	0.050	7535983	<0.050	0.050	<0.050	0.050	7535983
Saturation pH (@ 20C)	N/A	NC		7535162	NC		NC		7535162
Saturation pH (@ 4C)	N/A	NC		7535164	NC		NC		7535164
Inorganics									
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7562345	<5.0	5.0	<5.0	5.0	7562345
Dissolved Chloride (Cl ⁻)	mg/L	7.7	1.0	7562347	5.3	1.0	6.8	1.0	7562347
Colour	TCU	290	75	7562351	100	25	340	75	7562351
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7562354	<0.050	0.050	<0.050	0.050	7562354
Nitrite (N)	mg/L	<0.010	0.010	7562355	<0.010	0.010	<0.010	0.010	7562355
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7561633	<0.050	0.050	<0.050	0.050	7561633
Dissolved Organic Carbon (C)	mg/L	26 (1)	5.0	7539929	9.0	0.50	44 (1)	5.0	7539929
Total Organic Carbon (C)	mg/L	26 (1)	5.0	7542477	9.4	0.50	46 (1)	5.0	7542477
Orthophosphate (P)	mg/L	0.036	0.010	7562353	<0.010	0.010	<0.010	0.010	7562353
pH	pH	5.56		7542447	5.78		4.57		7542648
Reactive Silica (SiO ₂)	mg/L	4.7	0.50	7562350	0.76	0.50	5.9	0.50	7562350
Dissolved Sulphate (SO ₄)	mg/L	<2.0	2.0	7562348	<2.0	2.0	<2.0	2.0	7562348
Turbidity	NTU	2.2	0.10	7539941	10	0.10	2.4	0.10	7539941
Conductivity	uS/cm	44	1.0	7542446	25	1.0	46	1.0	7542645
Subcontracted Analysis									
Subcontract Parameter	N/A	ATTACHED	N/A	7538730	ATTACHED	N/A	ATTACHED	N/A	7538730
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Elevated reporting limit due to sample matrix.									



BV Labs Job #: C1N9184
Report Date: 2021/09/14

Anaconda Mining Inc
Client Project #: GOLDBORO SURFACE WATER
Site Location: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

RESULTS OF ANALYSES OF WATER

BV Labs ID		QLH272			QLH273			QLH274		
Sampling Date		2021/08/19 17:42			2021/08/20 11:14			2021/08/19 16:42		
COC Number		N/A			N/A			N/A		
	UNITS	SW-14-21	RDL	QC Batch	SW-15-21	RDL	QC Batch	SW-16-21	RDL	QC Batch
Calculated Parameters										
Anion Sum	me/L	0.190	N/A	7535160	0.160	N/A	7535160	0.170	N/A	7535160
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7535157	<1.0	1.0	7535157	<1.0	1.0	7535157
Calculated TDS	mg/L	21	1.0	7535165	12	1.0	7535165	19	1.0	7535165
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7535157	<1.0	1.0	7535157	<1.0	1.0	7535157
Cation Sum	me/L	0.440	N/A	7535160	0.220	N/A	7535160	0.360	N/A	7535160
Hardness (CaCO ₃)	mg/L	8.0	1.0	7535980	2.8	1.0	7535980	5.4	1.0	7535980
Ion Balance (% Difference)	%	39.7	N/A	7535159	15.8	N/A	7535159	35.9	N/A	7535159
Langelier Index (@ 20C)	N/A	NC		7535162	NC		7535162	NC		7535162
Langelier Index (@ 4C)	N/A	NC		7535164	NC		7535164	NC		7535164
Nitrate (N)	mg/L	<0.050	0.050	7535983	<0.050	0.050	7535983	<0.050	0.050	7535983
Saturation pH (@ 20C)	N/A	NC		7535162	NC		7535162	NC		7535162
Saturation pH (@ 4C)	N/A	NC		7535164	NC		7535164	NC		7535164
Inorganics										
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7562345	<5.0	5.0	7562345	<5.0	5.0	7562345
Dissolved Chloride (Cl ⁻)	mg/L	6.7	1.0	7562347	5.5	1.0	7562347	6.2	1.0	7562347
Colour	TCU	320	75	7562351	24	5.0	7562351	240	75	7562351
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7562354	<0.050	0.050	7562354	<0.050	0.050	7562354
Nitrite (N)	mg/L	<0.010	0.010	7562355	<0.010	0.010	7562355	<0.010	0.010	7562355
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7561628	<0.050	0.050	7561633	<0.050	0.050	7561633
Dissolved Organic Carbon (C)	mg/L	40 (1)	5.0	7539929	3.9	0.50	7539929	30 (1)	5.0	7539929
Total Organic Carbon (C)	mg/L	42 (1)	5.0	7542477	3.9	0.50	7542472	31 (1)	5.0	7542473
Orthophosphate (P)	mg/L	<0.010	0.010	7562353	<0.010	0.010	7562353	<0.010	0.010	7562353
pH	pH	4.76		7542648	5.46		7542648	4.81		7542659
Reactive Silica (SiO ₂)	mg/L	5.4	0.50	7562350	1.6	0.50	7562350	5.3	0.50	7562350
Dissolved Sulphate (SO ₄)	mg/L	<2.0	2.0	7562348	<2.0	2.0	7562348	<2.0	2.0	7562348
Turbidity	NTU	2.0	0.10	7539941	0.88	0.10	7539941	1.6	0.10	7539941
Conductivity	uS/cm	42	1.0	7542645	25	1.0	7542645	39	1.0	7542657
Subcontracted Analysis										
Subcontract Parameter	N/A	ATTACHED	N/A	7538730	ATTACHED	N/A	7538730	ATTACHED	N/A	7538730
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
N/A = Not Applicable										
(1) Elevated reporting limit due to sample matrix.										



BV Labs Job #: C1N9184
Report Date: 2021/09/14

Anaconda Mining Inc
Client Project #: GOLDBORO SURFACE WATER
Site Location: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

RESULTS OF ANALYSES OF WATER

BV Labs ID		QLH275		QLH276		QLH277		
Sampling Date		2021/08/19 14:30		2021/08/20 13:27		2021/08/20 13:45		
COC Number		N/A		N/A		N/A		
	UNITS	SW-17-21	QC Batch	SW-18-21	QC Batch	SW-19-21	RDL	QC Batch
Calculated Parameters								
Anion Sum	me/L	0.170	7535160	0.210	7535160	0.200	N/A	7535160
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	7535157	<1.0	7535157	<1.0	1.0	7535157
Calculated TDS	mg/L	20	7535165	24	7535165	21	1.0	7535165
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	7535157	<1.0	7535157	<1.0	1.0	7535157
Cation Sum	me/L	0.400	7535160	0.470	7535160	0.470	N/A	7535160
Hardness (CaCO ₃)	mg/L	5.8	7535980	6.2	7535980	6.3	1.0	7535980
Ion Balance (% Difference)	%	40.4	7535159	38.2	7535159	40.3	N/A	7535159
Langelier Index (@ 20C)	N/A	NC	7535162	NC	7535162	NC		7535162
Langelier Index (@ 4C)	N/A	NC	7535164	NC	7535164	NC		7535164
Nitrate (N)	mg/L	<0.050	7535983	<0.050	7535983	<0.050	0.050	7535983
Saturation pH (@ 20C)	N/A	NC	7535162	NC	7535162	NC		7535162
Saturation pH (@ 4C)	N/A	NC	7535164	NC	7535164	NC		7535164
Inorganics								
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	7562345	<5.0	7562345	<5.0	5.0	7562345
Dissolved Chloride (Cl ⁻)	mg/L	5.9	7562347	7.4	7562347	7.0	1.0	7562347
Colour	TCU	310	7562351	400	7562351	380	75	7562351
Nitrate + Nitrite (N)	mg/L	<0.050	7562354	<0.050	7562354	<0.050	0.050	7562354
Nitrite (N)	mg/L	<0.010	7562355	<0.010	7562355	<0.010	0.010	7562355
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	7561633	<0.050	7561633	<0.050	0.050	7561633
Dissolved Organic Carbon (C)	mg/L	40 (1)	7539929	36 (1)	7539929	46 (1)	5.0	7544928
Total Organic Carbon (C)	mg/L	41 (1)	7542477	45 (1)	7542477	51 (1)	5.0	7542477
Orthophosphate (P)	mg/L	<0.010	7562353	0.011	7562353	0.012	0.010	7562353
pH	pH	4.53	7542648	4.87	7542659	4.29		7542659
Reactive Silica (SiO ₂)	mg/L	6.5	7562350	6.0	7562350	4.5	0.50	7562350
Dissolved Sulphate (SO ₄)	mg/L	<2.0	7562348	<2.0	7562348	<2.0	2.0	7562348
Turbidity	NTU	2.2	7539941	74	7539941	14	0.10	7539941
Conductivity	uS/cm	42	7542645	39	7542657	50	1.0	7542657
Subcontracted Analysis								
Subcontract Parameter	N/A	ATTACHED	7538730	ATTACHED	7538730	ATTACHED	N/A	7538730
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Elevated reporting limit due to sample matrix.								



BV Labs Job #: C1N9184
Report Date: 2021/09/14

Anaconda Mining Inc
Client Project #: GOLDBORO SURFACE WATER
Site Location: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

RESULTS OF ANALYSES OF WATER

BV Labs ID		QLH278			QLH279		
Sampling Date		2021/08/19 13:23			2021/08/20 12:00		
COC Number		N/A			N/A		
	UNITS	SW-20-21	RDL	QC Batch	SWDUPA	RDL	QC Batch
Calculated Parameters							
Anion Sum	me/L	0.190	N/A	7535160	0.160	N/A	7535160
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7535157	<1.0	1.0	7535157
Calculated TDS	mg/L	20	1.0	7535165	12	1.0	7535165
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7535157	<1.0	1.0	7535157
Cation Sum	me/L	0.380	N/A	7535160	0.220	N/A	7535160
Hardness (CaCO ₃)	mg/L	5.2	1.0	7535980	2.9	1.0	7535980
Ion Balance (% Difference)	%	33.3	N/A	7535159	15.8	N/A	7535159
Langelier Index (@ 20C)	N/A	NC		7535162	NC		7535162
Langelier Index (@ 4C)	N/A	NC		7535164	NC		7535164
Nitrate (N)	mg/L	<0.050	0.050	7535983	<0.050	0.050	7535983
Saturation pH (@ 20C)	N/A	NC		7535162	NC		7535162
Saturation pH (@ 4C)	N/A	NC		7535164	NC		7535164
Inorganics							
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7562345	<5.0	5.0	7562345
Dissolved Chloride (Cl ⁻)	mg/L	6.6	1.0	7562347	5.5	1.0	7562347
Colour	TCU	270	75	7562351	27	5.0	7562351
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7562354	<0.050	0.050	7562354
Nitrite (N)	mg/L	<0.010	0.010	7562355	<0.010	0.010	7562355
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7561633	<0.050	0.050	7561633
Dissolved Organic Carbon (C)	mg/L	27 (1)	5.0	7539929	4.0	0.50	7544928
Total Organic Carbon (C)	mg/L	28	0.50	7542477	4.3	0.50	7542477
Orthophosphate (P)	mg/L	<0.010	0.010	7562353	<0.010	0.010	7562353
pH	pH	4.74		7542659	5.42		7542659
Reactive Silica (SiO ₂)	mg/L	5.9	0.50	7562350	1.8	0.50	7562350
Dissolved Sulphate (SO ₄)	mg/L	<2.0	2.0	7562348	<2.0	2.0	7562348
Turbidity	NTU	2.7	0.10	7539941	1.3	0.10	7539941
Conductivity	uS/cm	36	1.0	7542657	25	1.0	7542657
Subcontracted Analysis							
Subcontract Parameter	N/A	ATTACHED	N/A	7538730	ATTACHED	N/A	7538730
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Elevated reporting limit due to sample matrix.							



BV Labs Job #: C1N9184
Report Date: 2021/09/14

Anaconda Mining Inc
Client Project #: GOLDBORO SURFACE WATER
Site Location: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

MERCURY BY COLD VAPOUR AA (WATER)

BV Labs ID		QLH269	QLH270	QLH271	QLH272	QLH273	QLH274	QLH275		
Sampling Date		2021/08/20 09:38	2021/08/19 19:35	2021/08/19 18:50	2021/08/19 17:42	2021/08/20 11:14	2021/08/19 16:42	2021/08/19 14:30		
COC Number		N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	UNITS	SW-11-21	SW-12-21	SW-13-21	SW-14-21	SW-15-21	SW-16-21	SW-17-21	RDL	QC Batch

Metals

Dissolved Mercury (Hg)	ug/L	<0.013	<0.013	0.015	0.013	<0.013	<0.013	0.013	0.013	7540288
Total Mercury (Hg)	ug/L	0.015	<0.013	0.017	0.015	<0.013	<0.013	0.018	0.013	7540277

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

BV Labs ID		QLH276		QLH277	QLH278	QLH279		
Sampling Date		2021/08/20 13:27		2021/08/20 13:45	2021/08/19 13:23	2021/08/20 12:00		
COC Number		N/A		N/A	N/A	N/A		
	UNITS	SW-18-21	QC Batch	SW-19-21	SW-20-21	SWDUPA	RDL	QC Batch

Metals

Dissolved Mercury (Hg)	ug/L	<0.013	7540288	0.017	<0.013	<0.013	0.013	7542834
Total Mercury (Hg)	ug/L	0.037	7540277	0.018	<0.013	<0.013	0.013	7540277

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BV Labs Job #: C1N9184
Report Date: 2021/09/14

Anaconda Mining Inc
Client Project #: GOLDBORO SURFACE WATER
Site Location: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QLH269		QLH270		QLH271	QLH272		
Sampling Date		2021/08/20 09:38		2021/08/19 19:35		2021/08/19 18:50	2021/08/19 17:42		
COC Number		N/A		N/A		N/A	N/A		
	UNITS	SW-11-21	QC Batch	SW-12-21	QC Batch	SW-13-21	SW-14-21	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	570	7540050	250	7540050	900	750	5.0	7540050
Total Aluminum (Al)	mg/L	0.488	7538662	0.448	7538662	0.840	0.752	0.0050	7538734
Dissolved Antimony (Sb)	ug/L	<1.0	7540050	<1.0	7540050	<1.0	<1.0	1.0	7540050
Total Antimony (Sb)	mg/L	<0.0010	7538662	<0.0010	7538662	<0.0010	<0.0010	0.0010	7538734
Dissolved Arsenic (As)	ug/L	120	7540050	25	7540050	4.1	1.5	1.0	7540050
Total Arsenic (As)	mg/L	0.156	7538662	0.0554	7538662	0.0042	0.0016	0.0010	7538734
Dissolved Barium (Ba)	ug/L	3.8	7540050	2.0	7540050	5.4	5.8	1.0	7540050
Total Barium (Ba)	mg/L	0.0041	7538662	0.0029	7538662	0.0052	0.0057	0.0010	7538734
Dissolved Beryllium (Be)	ug/L	<1.0	7540050	<1.0	7540050	<1.0	<1.0	1.0	7540050
Total Beryllium (Be)	mg/L	<0.0010	7538662	<0.0010	7538662	<0.0010	<0.0010	0.0010	7538734
Dissolved Bismuth (Bi)	ug/L	<2.0	7540050	<2.0	7540050	<2.0	<2.0	2.0	7540050
Total Bismuth (Bi)	mg/L	<0.0020	7538662	<0.0020	7538662	<0.0020	<0.0020	0.0020	7538734
Dissolved Boron (B)	ug/L	<50	7540050	<50	7540050	<50	<50	50	7540050
Total Boron (B)	mg/L	<0.050	7538662	<0.050	7538662	<0.050	<0.050	0.050	7538734
Dissolved Cadmium (Cd)	ug/L	0.018	7540050	0.013	7540050	0.040	0.033	0.010	7540050
Total Cadmium (Cd)	mg/L	0.000012	7538662	0.000022	7538662	0.000023	0.000026	0.000010	7538734
Dissolved Calcium (Ca)	ug/L	1700	7540050	550	7540050	970	1700	100	7540050
Total Calcium (Ca)	mg/L	1.96	7538662	0.53	7538662	1.03	1.73	0.10	7538734
Dissolved Chromium (Cr)	ug/L	<1.0	7540050	<1.0	7540050	<1.0	<1.0	1.0	7540050
Total Chromium (Cr)	mg/L	<0.0010	7538662	<0.0010	7538662	<0.0010	0.0011	0.0010	7538734
Dissolved Cobalt (Co)	ug/L	<0.40	7540050	<0.40	7540050	0.61	<0.40	0.40	7540050
Total Cobalt (Co)	mg/L	<0.00040	7538662	<0.00040	7538662	0.00063	<0.00040	0.00040	7538734
Dissolved Copper (Cu)	ug/L	<0.50	7540050	<0.50	7540050	0.93	0.64	0.50	7540050
Total Copper (Cu)	mg/L	0.00055	7538662	0.00083	7538662	0.00066	0.00067	0.00050	7538734
Dissolved Iron (Fe)	ug/L	1000	7540050	340	7540050	1500	1100	50	7540050
Total Iron (Fe)	mg/L	1.29	7538662	0.825	7538662	1.54	1.14	0.050	7538734
Dissolved Lead (Pb)	ug/L	0.63	7540050	<0.50	7540050	1.5	1.4	0.50	7540050
Total Lead (Pb)	mg/L	0.00067	7538662	0.00142	7538662	0.00152	0.00146	0.00050	7538734
Dissolved Magnesium (Mg)	ug/L	770	7540050	370	7540050	820	910	100	7540050
Total Magnesium (Mg)	mg/L	0.81	7538662	0.43	7538662	0.79	0.90	0.10	7538734
Dissolved Manganese (Mn)	ug/L	39	7540050	6.6	7540050	36	27	2.0	7540050
Total Manganese (Mn)	mg/L	0.0468	7538662	0.0114	7538662	0.0350	0.0276	0.0020	7538734
Dissolved Molybdenum (Mo)	ug/L	<2.0	7540050	<2.0	7540050	<2.0	<2.0	2.0	7540050
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BV Labs Job #: C1N9184
Report Date: 2021/09/14

Anaconda Mining Inc
Client Project #: GOLDBORO SURFACE WATER
Site Location: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QLH269		QLH270		QLH271	QLH272		
Sampling Date		2021/08/20 09:38		2021/08/19 19:35		2021/08/19 18:50	2021/08/19 17:42		
COC Number		N/A		N/A		N/A	N/A		
	UNITS	SW-11-21	QC Batch	SW-12-21	QC Batch	SW-13-21	SW-14-21	RDL	QC Batch
Total Molybdenum (Mo)	mg/L	<0.0020	7538662	<0.0020	7538662	<0.0020	<0.0020	0.0020	7538734
Dissolved Nickel (Ni)	ug/L	<2.0	7540050	<2.0	7540050	<2.0	<2.0	2.0	7540050
Total Nickel (Ni)	mg/L	<0.0020	7538662	<0.0020	7538662	<0.0020	<0.0020	0.0020	7538734
Dissolved Phosphorus (P)	ug/L	<100	7540050	<100	7540050	<100	<100	100	7540050
Total Phosphorus (P)	mg/L	<0.10	7538662	<0.10	7538662	<0.10	<0.10	0.10	7538734
Dissolved Potassium (K)	ug/L	510	7540050	300	7540050	140	210	100	7540050
Total Potassium (K)	mg/L	0.57	7538662	0.41	7538662	0.13	0.22	0.10	7538734
Dissolved Selenium (Se)	ug/L	<0.50	7540050	<0.50	7540050	<0.50	<0.50	0.50	7540050
Total Selenium (Se)	mg/L	<0.00050	7538662	<0.00050	7538662	<0.00050	<0.00050	0.00050	7538734
Dissolved Silver (Ag)	ug/L	<0.10	7540050	<0.10	7540050	<0.10	<0.10	0.10	7540050
Total Silver (Ag)	mg/L	<0.00010	7538662	<0.00010	7538662	<0.00010	<0.00010	0.00010	7538734
Dissolved Sodium (Na)	ug/L	5400	7540050	3600	7540050	5300	5100	100	7540050
Total Sodium (Na)	mg/L	5.28	7538662	3.52	7538662	5.11	5.05	0.10	7538734
Dissolved Strontium (Sr)	ug/L	13	7540050	5.5	7540050	13	16	2.0	7540050
Total Strontium (Sr)	mg/L	0.0145	7538662	0.0055	7538662	0.0134	0.0158	0.0020	7538734
Dissolved Thallium (Tl)	ug/L	<0.10	7540050	<0.10	7540050	<0.10	<0.10	0.10	7540050
Total Thallium (Tl)	mg/L	<0.00010	7538662	<0.00010	7538662	<0.00010	<0.00010	0.00010	7538734
Dissolved Tin (Sn)	ug/L	<2.0	7540050	<2.0	7540050	<2.0	<2.0	2.0	7540050
Total Tin (Sn)	mg/L	<0.0020	7538662	<0.0020	7538662	<0.0020	<0.0020	0.0020	7538734
Dissolved Titanium (Ti)	ug/L	7.6	7540050	2.8	7540050	11	9.4	2.0	7540050
Total Titanium (Ti)	mg/L	0.0077	7538662	0.0176	7538662	0.0118	0.0105	0.0020	7538734
Dissolved Uranium (U)	ug/L	<0.10	7540050	<0.10	7540050	<0.10	<0.10	0.10	7540050
Total Uranium (U)	mg/L	<0.00010	7538662	<0.00010	7538662	<0.00010	<0.00010	0.00010	7538734
Dissolved Vanadium (V)	ug/L	<2.0	7540050	<2.0	7540050	<2.0	<2.0	2.0	7540050
Total Vanadium (V)	mg/L	<0.0020	7538662	<0.0020	7538662	<0.0020	<0.0020	0.0020	7538734
Dissolved Zinc (Zn)	ug/L	7.2	7569567	5.1	7540050	6.1	9.9	5.0	7540050
Total Zinc (Zn)	mg/L	<0.0050	7538662	<0.0050	7538662	<0.0050	<0.0050	0.0050	7538734
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BV Labs Job #: C1N9184
Report Date: 2021/09/14

Anaconda Mining Inc
Client Project #: GOLDBORO SURFACE WATER
Site Location: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QLH273	QLH274	QLH275		QLH276		
Sampling Date		2021/08/20 11:14	2021/08/19 16:42	2021/08/19 14:30		2021/08/20 13:27		
COC Number		N/A	N/A	N/A		N/A		
	UNITS	SW-15-21	SW-16-21	SW-17-21	QC Batch	SW-18-21	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	86	580	750	7540050	670	5.0	7540050
Total Aluminum (Al)	mg/L	0.0949	0.568	0.699	7538662	2.15	0.0050	7538734
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	<1.0	7540050	<1.0	1.0	7540050
Total Antimony (Sb)	mg/L	<0.0010	<0.0010	<0.0010	7538662	<0.0010	0.0010	7538734
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	<1.0	7540050	3.7	1.0	7540050
Total Arsenic (As)	mg/L	<0.0010	<0.0010	<0.0010	7538662	0.0158	0.0010	7538734
Dissolved Barium (Ba)	ug/L	1.9	4.0	4.6	7540050	4.8	1.0	7540050
Total Barium (Ba)	mg/L	0.0017	0.0042	0.0045	7538662	0.0149	0.0010	7538734
Dissolved Beryllium (Be)	ug/L	<1.0	<1.0	<1.0	7540050	<1.0	1.0	7540050
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	7538662	<0.0010	0.0010	7538734
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	7540050	<2.0	2.0	7540050
Total Bismuth (Bi)	mg/L	<0.0020	<0.0020	<0.0020	7538662	<0.0020	0.0020	7538734
Dissolved Boron (B)	ug/L	<50	<50	<50	7540050	<50	50	7540050
Total Boron (B)	mg/L	<0.050	<0.050	<0.050	7538662	<0.050	0.050	7538734
Dissolved Cadmium (Cd)	ug/L	0.010	0.020	0.045	7540050	0.036	0.010	7540050
Total Cadmium (Cd)	mg/L	0.000011	0.000022	0.000031	7538662	0.000023	0.000010	7538734
Dissolved Calcium (Ca)	ug/L	430	990	1100	7540050	1100	100	7540050
Total Calcium (Ca)	mg/L	0.41	1.10	1.09	7538662	1.32	0.10	7538734
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	7540050	<1.0	1.0	7540050
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	7538662	0.0029	0.0010	7538734
Dissolved Cobalt (Co)	ug/L	<0.40	<0.40	<0.40	7540050	0.81	0.40	7540050
Total Cobalt (Co)	mg/L	<0.00040	<0.00040	<0.00040	7538662	0.00158	0.00040	7538734
Dissolved Copper (Cu)	ug/L	<0.50	<0.50	0.51	7540050	0.76	0.50	7540050
Total Copper (Cu)	mg/L	<0.00050	<0.00050	0.00111	7538662	0.00202	0.00050	7538734
Dissolved Iron (Fe)	ug/L	<50	780	1000	7540050	2900	50	7540050
Total Iron (Fe)	mg/L	0.059	0.828	1.01	7538662	9.59	0.050	7538734
Dissolved Lead (Pb)	ug/L	<0.50	0.99	1.3	7540050	1.2	0.50	7540050
Total Lead (Pb)	mg/L	<0.00050	0.00108	0.00132	7538662	0.00530	0.00050	7538734
Dissolved Magnesium (Mg)	ug/L	420	700	750	7540050	840	100	7540050
Total Magnesium (Mg)	mg/L	0.43	0.69	0.69	7538662	1.23	0.10	7538734
Dissolved Manganese (Mn)	ug/L	12	16	18	7540050	510	2.0	7540050
Total Manganese (Mn)	mg/L	0.0118	0.0153	0.0170	7538662	0.578	0.0020	7538734
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	<2.0	7540050	<2.0	2.0	7540050
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BV Labs Job #: C1N9184
Report Date: 2021/09/14

Anaconda Mining Inc
Client Project #: GOLDBORO SURFACE WATER
Site Location: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QLH273	QLH274	QLH275		QLH276		
Sampling Date		2021/08/20 11:14	2021/08/19 16:42	2021/08/19 14:30		2021/08/20 13:27		
COC Number		N/A	N/A	N/A		N/A		
	UNITS	SW-15-21	SW-16-21	SW-17-21	QC Batch	SW-18-21	RDL	QC Batch
Total Molybdenum (Mo)	mg/L	<0.0020	<0.0020	<0.0020	7538662	<0.0020	0.0020	7538734
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	<2.0	7540050	<2.0	2.0	7540050
Total Nickel (Ni)	mg/L	<0.0020	<0.0020	<0.0020	7538662	0.0025	0.0020	7538734
Dissolved Phosphorus (P)	ug/L	<100	<100	<100	7540050	<100	100	7540050
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	7538662	0.22	0.10	7538734
Dissolved Potassium (K)	ug/L	300	270	260	7540050	360	100	7540050
Total Potassium (K)	mg/L	0.34	0.29	0.28	7538662	0.59	0.10	7538734
Dissolved Selenium (Se)	ug/L	<0.50	<0.50	<0.50	7540050	<0.50	0.50	7540050
Total Selenium (Se)	mg/L	<0.00050	<0.00050	<0.00050	7538662	<0.00050	0.00050	7538734
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	7540050	<0.10	0.10	7540050
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	7538662	<0.00010	0.00010	7538734
Dissolved Sodium (Na)	ug/L	3500	4600	4900	7540050	5100	100	7540050
Total Sodium (Na)	mg/L	3.48	4.43	4.50	7538662	4.82	0.10	7538734
Dissolved Strontium (Sr)	ug/L	5.0	12	13	7540050	9.2	2.0	7540050
Total Strontium (Sr)	mg/L	0.0052	0.0118	0.0120	7538662	0.0119	0.0020	7538734
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	7540050	<0.10	0.10	7540050
Total Thallium (Tl)	mg/L	<0.00010	<0.00010	<0.00010	7538662	<0.00010	0.00010	7538734
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	7540050	<2.0	2.0	7540050
Total Tin (Sn)	mg/L	<0.0020	<0.0020	<0.0020	7538662	<0.0020	0.0020	7538734
Dissolved Titanium (Ti)	ug/L	<2.0	6.8	7.6	7540050	9.2	2.0	7540050
Total Titanium (Ti)	mg/L	<0.0020	0.0080	0.0089	7538662	0.0959	0.0020	7538734
Dissolved Uranium (U)	ug/L	<0.10	<0.10	<0.10	7540050	<0.10	0.10	7540050
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	7538662	<0.00010	0.00010	7538734
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	<2.0	7540050	<2.0	2.0	7540050
Total Vanadium (V)	mg/L	<0.0020	<0.0020	<0.0020	7538662	0.0048	0.0020	7538734
Dissolved Zinc (Zn)	ug/L	<5.0	5.2	5.3	7540050	9.1	5.0	7540050
Total Zinc (Zn)	mg/L	<0.0050	<0.0050	<0.0050	7538662	0.0073	0.0050	7538734
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BV Labs Job #: C1N9184
Report Date: 2021/09/14

Anaconda Mining Inc
Client Project #: GOLDBORO SURFACE WATER
Site Location: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QLH277		QLH278		QLH279		
Sampling Date		2021/08/20 13:45		2021/08/19 13:23		2021/08/20 12:00		
COC Number		N/A		N/A		N/A		
	UNITS	SW-19-21	QC Batch	SW-20-21	QC Batch	SWDUPA	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	810	7540050	800	7540050	88	5.0	7540050
Total Aluminum (Al)	mg/L	0.866	7538662	0.789	7538734	0.0953	0.0050	7538662
Dissolved Antimony (Sb)	ug/L	<1.0	7540050	<1.0	7540050	<1.0	1.0	7540050
Total Antimony (Sb)	mg/L	<0.0010	7538662	<0.0010	7538734	<0.0010	0.0010	7538662
Dissolved Arsenic (As)	ug/L	2.3	7540050	12	7540050	<1.0	1.0	7540050
Total Arsenic (As)	mg/L	0.0036	7538662	0.0132	7538734	<0.0010	0.0010	7538662
Dissolved Barium (Ba)	ug/L	3.7	7540050	4.3	7540050	1.8	1.0	7540050
Total Barium (Ba)	mg/L	0.0038	7538662	0.0043	7538734	0.0019	0.0010	7538662
Dissolved Beryllium (Be)	ug/L	<1.0	7540050	<1.0	7540050	<1.0	1.0	7540050
Total Beryllium (Be)	mg/L	<0.0010	7538662	<0.0010	7538734	<0.0010	0.0010	7538662
Dissolved Bismuth (Bi)	ug/L	<2.0	7540050	<2.0	7540050	<2.0	2.0	7540050
Total Bismuth (Bi)	mg/L	<0.0020	7538662	<0.0020	7538734	<0.0020	0.0020	7538662
Dissolved Boron (B)	ug/L	<50	7540050	<50	7540050	<50	50	7540050
Total Boron (B)	mg/L	<0.050	7538662	<0.050	7538734	<0.050	0.050	7538662
Dissolved Cadmium (Cd)	ug/L	0.031	7540050	0.12	7569567	0.010	0.010	7540050
Total Cadmium (Cd)	mg/L	0.000019	7538662	0.000025	7538734	<0.000010	0.000010	7538662
Dissolved Calcium (Ca)	ug/L	1300	7540050	1000	7540050	440	100	7540050
Total Calcium (Ca)	mg/L	1.07	7538662	0.88	7538734	0.41	0.10	7538662
Dissolved Chromium (Cr)	ug/L	<1.0	7540050	<1.0	7540050	<1.0	1.0	7540050
Total Chromium (Cr)	mg/L	<0.0010	7538662	<0.0010	7538734	<0.0010	0.0010	7538662
Dissolved Cobalt (Co)	ug/L	0.63	7540050	0.54	7540050	<0.40	0.40	7540050
Total Cobalt (Co)	mg/L	<0.00040	7538662	0.00056	7538734	<0.00040	0.00040	7538662
Dissolved Copper (Cu)	ug/L	0.67	7540050	1.3	7540050	<0.50	0.50	7540050
Total Copper (Cu)	mg/L	0.00065	7538662	0.00089	7538734	<0.00050	0.00050	7538662
Dissolved Iron (Fe)	ug/L	1900	7540050	1100	7540050	<50	50	7540050
Total Iron (Fe)	mg/L	1.94	7538662	1.29	7538734	0.073	0.050	7538662
Dissolved Lead (Pb)	ug/L	1.8	7540050	1.3	7540050	<0.50	0.50	7540050
Total Lead (Pb)	mg/L	0.00323	7538662	0.00132	7538734	<0.00050	0.00050	7538662
Dissolved Magnesium (Mg)	ug/L	760	7540050	650	7540050	430	100	7540050
Total Magnesium (Mg)	mg/L	0.63	7538662	0.63	7538734	0.42	0.10	7538662
Dissolved Manganese (Mn)	ug/L	74	7569567	45	7540050	14	2.0	7540050
Total Manganese (Mn)	mg/L	0.0305	7538662	0.0457	7538734	0.0146	0.0020	7538662
Dissolved Molybdenum (Mo)	ug/L	<2.0	7540050	<2.0	7540050	<2.0	2.0	7540050
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BV Labs Job #: C1N9184
Report Date: 2021/09/14

Anaconda Mining Inc
Client Project #: GOLDBORO SURFACE WATER
Site Location: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QLH277		QLH278		QLH279		
Sampling Date		2021/08/20 13:45		2021/08/19 13:23		2021/08/20 12:00		
COC Number		N/A		N/A		N/A		
	UNITS	SW-19-21	QC Batch	SW-20-21	QC Batch	SWDUPA	RDL	QC Batch
Total Molybdenum (Mo)	mg/L	<0.0020	7538662	<0.0020	7538734	<0.0020	0.0020	7538662
Dissolved Nickel (Ni)	ug/L	<2.0	7540050	<2.0	7540050	<2.0	2.0	7540050
Total Nickel (Ni)	mg/L	<0.0020	7538662	<0.0020	7538734	<0.0020	0.0020	7538662
Dissolved Phosphorus (P)	ug/L	<100	7540050	<100	7540050	<100	100	7540050
Total Phosphorus (P)	mg/L	0.11	7538662	<0.10	7538734	<0.10	0.10	7538662
Dissolved Potassium (K)	ug/L	270	7540050	410	7540050	300	100	7540050
Total Potassium (K)	mg/L	0.31	7538662	0.37	7538734	0.31	0.10	7538662
Dissolved Selenium (Se)	ug/L	<0.50	7540050	<0.50	7540050	<0.50	0.50	7540050
Total Selenium (Se)	mg/L	<0.00050	7538662	<0.00050	7538734	<0.00050	0.00050	7538662
Dissolved Silver (Ag)	ug/L	<0.10	7540050	<0.10	7540050	<0.10	0.10	7540050
Total Silver (Ag)	mg/L	<0.00010	7538662	<0.00010	7538734	<0.00010	0.00010	7538662
Dissolved Sodium (Na)	ug/L	5200	7540050	4700	7540050	3500	100	7540050
Total Sodium (Na)	mg/L	4.85	7538662	4.41	7538734	3.43	0.10	7538662
Dissolved Strontium (Sr)	ug/L	9.1	7540050	9.8	7540050	5.0	2.0	7540050
Total Strontium (Sr)	mg/L	0.0081	7538662	0.0096	7538734	0.0051	0.0020	7538662
Dissolved Thallium (Tl)	ug/L	<0.10	7540050	<0.10	7540050	<0.10	0.10	7540050
Total Thallium (Tl)	mg/L	<0.00010	7538662	<0.00010	7538734	<0.00010	0.00010	7538662
Dissolved Tin (Sn)	ug/L	<2.0	7540050	<2.0	7540050	<2.0	2.0	7540050
Total Tin (Sn)	mg/L	<0.0020	7538662	<0.0020	7538734	<0.0020	0.0020	7538662
Dissolved Titanium (Ti)	ug/L	9.5	7540050	10	7540050	<2.0	2.0	7540050
Total Titanium (Ti)	mg/L	0.0117	7538662	0.0125	7538734	<0.0020	0.0020	7538662
Dissolved Uranium (U)	ug/L	<0.10	7540050	<0.10	7540050	<0.10	0.10	7540050
Total Uranium (U)	mg/L	<0.00010	7538662	<0.00010	7538734	<0.00010	0.00010	7538662
Dissolved Vanadium (V)	ug/L	<2.0	7540050	<2.0	7540050	<2.0	2.0	7540050
Total Vanadium (V)	mg/L	<0.0020	7538662	<0.0020	7538734	<0.0020	0.0020	7538662
Dissolved Zinc (Zn)	ug/L	6.8	7540050	13	7540050	<5.0	5.0	7540050
Total Zinc (Zn)	mg/L	<0.0050	7538662	<0.0050	7538734	<0.0050	0.0050	7538662
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	8.7°C
Package 2	9.0°C

Sample QLH269 [SW-11-21] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent. Ion balance acceptable. Low ionic strength sample.

Sample QLH270 [SW-12-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample QLH271 [SW-13-21] : Ion balance acceptable. Low ionic strength sample.

Sample QLH272 [SW-14-21] : Ion balance acceptable. Low ionic strength sample.

Sample QLH273 [SW-15-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample QLH274 [SW-16-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample QLH275 [SW-17-21] : Ion balance acceptable. Low ionic strength sample.

Sample QLH276 [SW-18-21] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent. Ion balance acceptable. Low ionic strength sample.

Sample QLH277 [SW-19-21] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent. Ion balance acceptable. Low ionic strength sample.

Dissolved versus Total Metals (Mn): Re-analysis of new dissolved metals aliquot from client supplied bottle confirmed original results.

Sample QLH278 [SW-20-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Dissolved versus Total Metals (Cd): Re-analysis of new dissolved metals aliquot from client supplied bottle confirmed original results.

Sample QLH279 [SWDUPA] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample QLH269, Metals Water Diss. MS (as rec'd): Test repeated.

Sample QLH277, Metals Water Diss. MS (as rec'd): Test repeated.

Sample QLH278, Metals Water Diss. MS (as rec'd): Test repeated.

Results relate only to the items tested.



BV Labs Job #: C1N9184
Report Date: 2021/09/14

Anaconda Mining Inc
Client Project #: GOLDBORO SURFACE WATER
Site Location: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

QUALITY ASSURANCE REPORT

QA/QC		QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
Batch	Init							
7538662	MLB	Matrix Spike	Total Aluminum (Al)	2021/08/25		97	%	80 - 120
			Total Antimony (Sb)	2021/08/25		103	%	80 - 120
			Total Arsenic (As)	2021/08/25		96	%	80 - 120
			Total Barium (Ba)	2021/08/25		98	%	80 - 120
			Total Beryllium (Be)	2021/08/25		98	%	80 - 120
			Total Bismuth (Bi)	2021/08/25		100	%	80 - 120
			Total Boron (B)	2021/08/25		96	%	80 - 120
			Total Cadmium (Cd)	2021/08/25		97	%	80 - 120
			Total Calcium (Ca)	2021/08/25		98	%	80 - 120
			Total Chromium (Cr)	2021/08/25		97	%	80 - 120
			Total Cobalt (Co)	2021/08/25		99	%	80 - 120
			Total Copper (Cu)	2021/08/25		99	%	80 - 120
			Total Iron (Fe)	2021/08/25		97	%	80 - 120
			Total Lead (Pb)	2021/08/25		100	%	80 - 120
			Total Magnesium (Mg)	2021/08/25		98	%	80 - 120
			Total Manganese (Mn)	2021/08/25		100	%	80 - 120
			Total Molybdenum (Mo)	2021/08/25		105	%	80 - 120
			Total Nickel (Ni)	2021/08/25		98	%	80 - 120
			Total Phosphorus (P)	2021/08/25		103	%	80 - 120
			Total Potassium (K)	2021/08/25		103	%	80 - 120
			Total Selenium (Se)	2021/08/25		100	%	80 - 120
			Total Silver (Ag)	2021/08/25		98	%	80 - 120
			Total Sodium (Na)	2021/08/25		94	%	80 - 120
			Total Strontium (Sr)	2021/08/25		NC	%	80 - 120
			Total Thallium (Tl)	2021/08/25		100	%	80 - 120
			Total Tin (Sn)	2021/08/25		101	%	80 - 120
			Total Titanium (Ti)	2021/08/25		99	%	80 - 120
			Total Uranium (U)	2021/08/25		106	%	80 - 120
			Total Vanadium (V)	2021/08/25		97	%	80 - 120
			Total Zinc (Zn)	2021/08/25		98	%	80 - 120
7538662	MLB	Spiked Blank	Total Aluminum (Al)	2021/08/25		103	%	80 - 120
			Total Antimony (Sb)	2021/08/25		103	%	80 - 120
			Total Arsenic (As)	2021/08/25		96	%	80 - 120
			Total Barium (Ba)	2021/08/25		98	%	80 - 120
			Total Beryllium (Be)	2021/08/25		99	%	80 - 120
			Total Bismuth (Bi)	2021/08/25		100	%	80 - 120
			Total Boron (B)	2021/08/25		98	%	80 - 120
			Total Cadmium (Cd)	2021/08/25		98	%	80 - 120
			Total Calcium (Ca)	2021/08/25		100	%	80 - 120
			Total Chromium (Cr)	2021/08/25		98	%	80 - 120
			Total Cobalt (Co)	2021/08/25		101	%	80 - 120
			Total Copper (Cu)	2021/08/25		100	%	80 - 120
			Total Iron (Fe)	2021/08/25		100	%	80 - 120
			Total Lead (Pb)	2021/08/25		101	%	80 - 120
			Total Magnesium (Mg)	2021/08/25		101	%	80 - 120
			Total Manganese (Mn)	2021/08/25		100	%	80 - 120
			Total Molybdenum (Mo)	2021/08/25		101	%	80 - 120
			Total Nickel (Ni)	2021/08/25		98	%	80 - 120
			Total Phosphorus (P)	2021/08/25		102	%	80 - 120
			Total Potassium (K)	2021/08/25		101	%	80 - 120
			Total Selenium (Se)	2021/08/25		98	%	80 - 120
			Total Silver (Ag)	2021/08/25		98	%	80 - 120



BV Labs Job #: C1N9184
Report Date: 2021/09/14

Anaconda Mining Inc
Client Project #: GOLDBORO SURFACE WATER
Site Location: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7538662	MLB	Method Blank	Total Sodium (Na)	2021/08/25		98	%	80 - 120
			Total Strontium (Sr)	2021/08/25		101	%	80 - 120
			Total Thallium (Tl)	2021/08/25		100	%	80 - 120
			Total Tin (Sn)	2021/08/25		100	%	80 - 120
			Total Titanium (Ti)	2021/08/25		101	%	80 - 120
			Total Uranium (U)	2021/08/25		105	%	80 - 120
			Total Vanadium (V)	2021/08/25		99	%	80 - 120
			Total Zinc (Zn)	2021/08/25		98	%	80 - 120
			Total Aluminum (Al)	2021/08/25	<0.0050		mg/L	
			Total Antimony (Sb)	2021/08/25	<0.0010		mg/L	
			Total Arsenic (As)	2021/08/25	<0.0010		mg/L	
			Total Barium (Ba)	2021/08/25	<0.0010		mg/L	
			Total Beryllium (Be)	2021/08/25	<0.0010		mg/L	
			Total Bismuth (Bi)	2021/08/25	<0.0020		mg/L	
			Total Boron (B)	2021/08/25	<0.050		mg/L	
			Total Cadmium (Cd)	2021/08/25	<0.000010		mg/L	
			Total Calcium (Ca)	2021/08/25	<0.10		mg/L	
			Total Chromium (Cr)	2021/08/25	<0.0010		mg/L	
			Total Cobalt (Co)	2021/08/25	<0.00040		mg/L	
			Total Copper (Cu)	2021/08/25	<0.00050		mg/L	
			Total Iron (Fe)	2021/08/25	<0.050		mg/L	
			Total Lead (Pb)	2021/08/25	<0.00050		mg/L	
			Total Magnesium (Mg)	2021/08/25	<0.10		mg/L	
			Total Manganese (Mn)	2021/08/25	<0.0020		mg/L	
			Total Molybdenum (Mo)	2021/08/25	<0.0020		mg/L	
			Total Nickel (Ni)	2021/08/25	<0.0020		mg/L	
			Total Phosphorus (P)	2021/08/25	<0.10		mg/L	
			Total Potassium (K)	2021/08/25	<0.10		mg/L	
			Total Selenium (Se)	2021/08/25	<0.00050		mg/L	
			Total Silver (Ag)	2021/08/25	<0.00010		mg/L	
			Total Sodium (Na)	2021/08/25	<0.10		mg/L	
			Total Strontium (Sr)	2021/08/25	<0.0020		mg/L	
			Total Thallium (Tl)	2021/08/25	<0.00010		mg/L	
			Total Tin (Sn)	2021/08/25	<0.0020		mg/L	
			Total Titanium (Ti)	2021/08/25	<0.0020		mg/L	
			Total Uranium (U)	2021/08/25	<0.00010		mg/L	
			Total Vanadium (V)	2021/08/25	<0.0020		mg/L	
			Total Zinc (Zn)	2021/08/25	<0.0050		mg/L	
7538662	MLB	RPD	Total Copper (Cu)	2021/08/25	NC		%	20
			Total Lead (Pb)	2021/08/25	NC		%	20
7538734	MLB	Matrix Spike	Total Aluminum (Al)	2021/08/25		96	%	80 - 120
			Total Antimony (Sb)	2021/08/25		102	%	80 - 120
			Total Arsenic (As)	2021/08/25		95	%	80 - 120
			Total Barium (Ba)	2021/08/25		97	%	80 - 120
			Total Beryllium (Be)	2021/08/25		98	%	80 - 120
			Total Bismuth (Bi)	2021/08/25		100	%	80 - 120
			Total Boron (B)	2021/08/25		96	%	80 - 120
			Total Cadmium (Cd)	2021/08/25		97	%	80 - 120
			Total Calcium (Ca)	2021/08/25		99	%	80 - 120
			Total Chromium (Cr)	2021/08/25		96	%	80 - 120
			Total Cobalt (Co)	2021/08/25		99	%	80 - 120
			Total Copper (Cu)	2021/08/25		99	%	80 - 120



BV Labs Job #: C1N9184
Report Date: 2021/09/14

Anaconda Mining Inc
Client Project #: GOLDBORO SURFACE WATER
Site Location: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7538734	MLB	Spiked Blank	Total Iron (Fe)	2021/08/25		96	%	80 - 120
			Total Lead (Pb)	2021/08/25		100	%	80 - 120
			Total Magnesium (Mg)	2021/08/25		97	%	80 - 120
			Total Manganese (Mn)	2021/08/25		97	%	80 - 120
			Total Molybdenum (Mo)	2021/08/25		101	%	80 - 120
			Total Nickel (Ni)	2021/08/25		97	%	80 - 120
			Total Phosphorus (P)	2021/08/25		100	%	80 - 120
			Total Potassium (K)	2021/08/25		100	%	80 - 120
			Total Selenium (Se)	2021/08/25		98	%	80 - 120
			Total Silver (Ag)	2021/08/25		97	%	80 - 120
			Total Sodium (Na)	2021/08/25		96	%	80 - 120
			Total Strontium (Sr)	2021/08/25		98	%	80 - 120
			Total Thallium (Tl)	2021/08/25		99	%	80 - 120
			Total Tin (Sn)	2021/08/25		102	%	80 - 120
			Total Titanium (Ti)	2021/08/25		96	%	80 - 120
			Total Uranium (U)	2021/08/25		104	%	80 - 120
			Total Vanadium (V)	2021/08/25		96	%	80 - 120
			Total Zinc (Zn)	2021/08/25		96	%	80 - 120
			Total Aluminum (Al)	2021/08/25		100	%	80 - 120
			Total Antimony (Sb)	2021/08/25		101	%	80 - 120
			Total Arsenic (As)	2021/08/25		94	%	80 - 120
			Total Barium (Ba)	2021/08/25		97	%	80 - 120
			Total Beryllium (Be)	2021/08/25		97	%	80 - 120
			Total Bismuth (Bi)	2021/08/25		101	%	80 - 120
			Total Boron (B)	2021/08/25		96	%	80 - 120
			Total Cadmium (Cd)	2021/08/25		96	%	80 - 120
			Total Calcium (Ca)	2021/08/25		99	%	80 - 120
			Total Chromium (Cr)	2021/08/25		96	%	80 - 120
			Total Cobalt (Co)	2021/08/25		98	%	80 - 120
			Total Copper (Cu)	2021/08/25		98	%	80 - 120
			Total Iron (Fe)	2021/08/25		98	%	80 - 120
			Total Lead (Pb)	2021/08/25		100	%	80 - 120
			Total Magnesium (Mg)	2021/08/25		99	%	80 - 120
			Total Manganese (Mn)	2021/08/25		98	%	80 - 120
			Total Molybdenum (Mo)	2021/08/25		103	%	80 - 120
			Total Nickel (Ni)	2021/08/25		97	%	80 - 120
			Total Phosphorus (P)	2021/08/25		106	%	80 - 120
			Total Potassium (K)	2021/08/25		106	%	80 - 120
			Total Selenium (Se)	2021/08/25		97	%	80 - 120
			Total Silver (Ag)	2021/08/25		97	%	80 - 120
			Total Sodium (Na)	2021/08/25		96	%	80 - 120
			Total Strontium (Sr)	2021/08/25		100	%	80 - 120
			Total Thallium (Tl)	2021/08/25		100	%	80 - 120
			Total Tin (Sn)	2021/08/25		101	%	80 - 120
			Total Titanium (Ti)	2021/08/25		98	%	80 - 120
			Total Uranium (U)	2021/08/25		105	%	80 - 120
			Total Vanadium (V)	2021/08/25		96	%	80 - 120
			Total Zinc (Zn)	2021/08/25		96	%	80 - 120
7538734	MLB	Method Blank	Total Aluminum (Al)	2021/08/25	<0.0050		mg/L	
			Total Antimony (Sb)	2021/08/25	<0.0010		mg/L	
			Total Arsenic (As)	2021/08/25	<0.0010		mg/L	
			Total Barium (Ba)	2021/08/25	<0.0010		mg/L	



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7538734	MLB	RPD	Total Beryllium (Be)	2021/08/25	<0.0010		mg/L	
			Total Bismuth (Bi)	2021/08/25	<0.0020		mg/L	
			Total Boron (B)	2021/08/25	<0.050		mg/L	
			Total Cadmium (Cd)	2021/08/25	<0.000010		mg/L	
			Total Calcium (Ca)	2021/08/25	<0.10		mg/L	
			Total Chromium (Cr)	2021/08/25	<0.0010		mg/L	
			Total Cobalt (Co)	2021/08/25	<0.00040		mg/L	
			Total Copper (Cu)	2021/08/25	<0.00050		mg/L	
			Total Iron (Fe)	2021/08/25	<0.050		mg/L	
			Total Lead (Pb)	2021/08/25	<0.00050		mg/L	
			Total Magnesium (Mg)	2021/08/25	<0.10		mg/L	
			Total Manganese (Mn)	2021/08/25	<0.0020		mg/L	
			Total Molybdenum (Mo)	2021/08/25	<0.0020		mg/L	
			Total Nickel (Ni)	2021/08/25	<0.0020		mg/L	
			Total Phosphorus (P)	2021/08/25	<0.10		mg/L	
			Total Potassium (K)	2021/08/25	<0.10		mg/L	
			Total Selenium (Se)	2021/08/25	<0.00050		mg/L	
			Total Silver (Ag)	2021/08/25	<0.00010		mg/L	
			Total Sodium (Na)	2021/08/25	<0.10		mg/L	
			Total Strontium (Sr)	2021/08/25	<0.0020		mg/L	
			Total Thallium (Tl)	2021/08/25	<0.00010		mg/L	
			Total Tin (Sn)	2021/08/25	<0.0020		mg/L	
			Total Titanium (Ti)	2021/08/25	<0.0020		mg/L	
			Total Uranium (U)	2021/08/25	<0.00010		mg/L	
			Total Vanadium (V)	2021/08/25	<0.0020		mg/L	
			Total Zinc (Zn)	2021/08/25	<0.0050		mg/L	
			Total Antimony (Sb)	2021/08/26	NC		%	20
			Total Arsenic (As)	2021/08/26	NC		%	20
			Total Barium (Ba)	2021/08/26	3.5		%	20
			Total Boron (B)	2021/08/26	NC		%	20
			Total Cadmium (Cd)	2021/08/26	NC		%	20
			Total Calcium (Ca)	2021/08/26	2.8		%	20
			Total Chromium (Cr)	2021/08/26	NC		%	20
			Total Copper (Cu)	2021/08/26	9.2		%	20
			Total Iron (Fe)	2021/08/26	11		%	20
			Total Lead (Pb)	2021/08/26	NC		%	20
			Total Magnesium (Mg)	2021/08/26	1.8		%	20
			Total Manganese (Mn)	2021/08/26	7.5		%	20
			Total Nickel (Ni)	2021/08/26	NC		%	20
			Total Phosphorus (P)	2021/08/26	NC		%	20
			Total Selenium (Se)	2021/08/26	NC		%	20
			Total Sodium (Na)	2021/08/26	4.0		%	20
			Total Strontium (Sr)	2021/08/26	3.9		%	20
			Total Uranium (U)	2021/08/26	NC		%	20
			Total Zinc (Zn)	2021/08/26	NC		%	20
7539929	NGI	Matrix Spike	Dissolved Organic Carbon (C)	2021/08/25		92	%	85 - 115
7539929	NGI	Spiked Blank	Dissolved Organic Carbon (C)	2021/08/25		98	%	80 - 120
7539929	NGI	Method Blank	Dissolved Organic Carbon (C)	2021/08/25	<0.50		mg/L	
7539929	NGI	RPD	Dissolved Organic Carbon (C)	2021/08/25	1.5		%	15
7539941	SHW	QC Standard	Turbidity	2021/08/25		101	%	80 - 120
7539941	SHW	Spiked Blank	Turbidity	2021/08/25		104	%	80 - 120
7539941	SHW	Method Blank	Turbidity	2021/08/25	<0.10		NTU	



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
	7539941	SHW	RPD	Turbidity	2021/08/25	NC		%	20
	7540050	MLB	Matrix Spike	Dissolved Aluminum (Al)	2021/08/25		102	%	80 - 120
				Dissolved Antimony (Sb)	2021/08/25		103	%	80 - 120
				Dissolved Arsenic (As)	2021/08/25		98	%	80 - 120
				Dissolved Barium (Ba)	2021/08/25		98	%	80 - 120
				Dissolved Beryllium (Be)	2021/08/25		105	%	80 - 120
				Dissolved Bismuth (Bi)	2021/08/25		99	%	80 - 120
				Dissolved Boron (B)	2021/08/25		99	%	80 - 120
				Dissolved Cadmium (Cd)	2021/08/25		100	%	80 - 120
				Dissolved Calcium (Ca)	2021/08/25		94	%	80 - 120
				Dissolved Chromium (Cr)	2021/08/25		99	%	80 - 120
				Dissolved Cobalt (Co)	2021/08/25		99	%	80 - 120
				Dissolved Copper (Cu)	2021/08/25		98	%	80 - 120
				Dissolved Iron (Fe)	2021/08/25		101	%	80 - 120
				Dissolved Lead (Pb)	2021/08/25		100	%	80 - 120
				Dissolved Magnesium (Mg)	2021/08/25		103	%	80 - 120
				Dissolved Manganese (Mn)	2021/08/25		97	%	80 - 120
				Dissolved Molybdenum (Mo)	2021/08/25		102	%	80 - 120
				Dissolved Nickel (Ni)	2021/08/25		98	%	80 - 120
				Dissolved Phosphorus (P)	2021/08/25		106	%	80 - 120
				Dissolved Potassium (K)	2021/08/25		103	%	80 - 120
				Dissolved Selenium (Se)	2021/08/25		101	%	80 - 120
				Dissolved Silver (Ag)	2021/08/25		97	%	80 - 120
				Dissolved Sodium (Na)	2021/08/25		NC	%	80 - 120
				Dissolved Strontium (Sr)	2021/08/25		NC	%	80 - 120
				Dissolved Thallium (Tl)	2021/08/25		100	%	80 - 120
				Dissolved Tin (Sn)	2021/08/25		103	%	80 - 120
				Dissolved Titanium (Ti)	2021/08/25		103	%	80 - 120
				Dissolved Uranium (U)	2021/08/25		104	%	80 - 120
				Dissolved Vanadium (V)	2021/08/25		103	%	80 - 120
				Dissolved Zinc (Zn)	2021/08/25		102	%	80 - 120
	7540050	MLB	Spiked Blank	Dissolved Aluminum (Al)	2021/08/25		103	%	80 - 120
				Dissolved Antimony (Sb)	2021/08/25		102	%	80 - 120
				Dissolved Arsenic (As)	2021/08/25		97	%	80 - 120
				Dissolved Barium (Ba)	2021/08/25		98	%	80 - 120
				Dissolved Beryllium (Be)	2021/08/25		102	%	80 - 120
				Dissolved Bismuth (Bi)	2021/08/25		102	%	80 - 120
				Dissolved Boron (B)	2021/08/25		98	%	80 - 120
				Dissolved Cadmium (Cd)	2021/08/25		98	%	80 - 120
				Dissolved Calcium (Ca)	2021/08/25		104	%	80 - 120
				Dissolved Chromium (Cr)	2021/08/25		100	%	80 - 120
				Dissolved Cobalt (Co)	2021/08/25		100	%	80 - 120
				Dissolved Copper (Cu)	2021/08/25		100	%	80 - 120
				Dissolved Iron (Fe)	2021/08/25		103	%	80 - 120
				Dissolved Lead (Pb)	2021/08/25		101	%	80 - 120
				Dissolved Magnesium (Mg)	2021/08/25		105	%	80 - 120
				Dissolved Manganese (Mn)	2021/08/25		103	%	80 - 120
				Dissolved Molybdenum (Mo)	2021/08/25		102	%	80 - 120
				Dissolved Nickel (Ni)	2021/08/25		100	%	80 - 120
				Dissolved Phosphorus (P)	2021/08/25		106	%	80 - 120
				Dissolved Potassium (K)	2021/08/25		104	%	80 - 120
				Dissolved Selenium (Se)	2021/08/25		100	%	80 - 120



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7540050	MLB	Method Blank	Dissolved Silver (Ag)	2021/08/25		97	%	80 - 120
			Dissolved Sodium (Na)	2021/08/25		104	%	80 - 120
			Dissolved Strontium (Sr)	2021/08/25		100	%	80 - 120
			Dissolved Thallium (Tl)	2021/08/25		102	%	80 - 120
			Dissolved Tin (Sn)	2021/08/25		100	%	80 - 120
			Dissolved Titanium (Ti)	2021/08/25		105	%	80 - 120
			Dissolved Uranium (U)	2021/08/25		104	%	80 - 120
			Dissolved Vanadium (V)	2021/08/25		103	%	80 - 120
			Dissolved Zinc (Zn)	2021/08/25		103	%	80 - 120
			Dissolved Aluminum (Al)	2021/08/25	<5.0		ug/L	
			Dissolved Antimony (Sb)	2021/08/25	<1.0		ug/L	
			Dissolved Arsenic (As)	2021/08/25	<1.0		ug/L	
			Dissolved Barium (Ba)	2021/08/25	<1.0		ug/L	
			Dissolved Beryllium (Be)	2021/08/25	<1.0		ug/L	
			Dissolved Bismuth (Bi)	2021/08/25	<2.0		ug/L	
			Dissolved Boron (B)	2021/08/25	<50		ug/L	
			Dissolved Cadmium (Cd)	2021/08/25	<0.010		ug/L	
			Dissolved Calcium (Ca)	2021/08/25	<100		ug/L	
			Dissolved Chromium (Cr)	2021/08/25	<1.0		ug/L	
			Dissolved Cobalt (Co)	2021/08/25	<0.40		ug/L	
			Dissolved Copper (Cu)	2021/08/25	<0.50		ug/L	
			Dissolved Iron (Fe)	2021/08/25	<50		ug/L	
			Dissolved Lead (Pb)	2021/08/25	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2021/08/25	<100		ug/L	
			Dissolved Manganese (Mn)	2021/08/25	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2021/08/25	<2.0		ug/L	
			Dissolved Nickel (Ni)	2021/08/25	<2.0		ug/L	
			Dissolved Phosphorus (P)	2021/08/25	<100		ug/L	
			Dissolved Potassium (K)	2021/08/25	<100		ug/L	
			Dissolved Selenium (Se)	2021/08/25	<0.50		ug/L	
			Dissolved Silver (Ag)	2021/08/25	<0.10		ug/L	
			Dissolved Sodium (Na)	2021/08/25	<100		ug/L	
			Dissolved Strontium (Sr)	2021/08/25	<2.0		ug/L	
			Dissolved Thallium (Tl)	2021/08/25	<0.10		ug/L	
			Dissolved Tin (Sn)	2021/08/25	<2.0		ug/L	
			Dissolved Titanium (Ti)	2021/08/25	<2.0		ug/L	
			Dissolved Uranium (U)	2021/08/25	<0.10		ug/L	
			Dissolved Vanadium (V)	2021/08/25	<2.0		ug/L	
			Dissolved Zinc (Zn)	2021/08/25	<5.0		ug/L	
7540050	MLB	RPD	Dissolved Aluminum (Al)	2021/08/25	NC		%	20
			Dissolved Antimony (Sb)	2021/08/25	NC		%	20
			Dissolved Arsenic (As)	2021/08/25	NC		%	20
			Dissolved Barium (Ba)	2021/08/25	0.58		%	20
			Dissolved Beryllium (Be)	2021/08/25	NC		%	20
			Dissolved Bismuth (Bi)	2021/08/25	NC		%	20
			Dissolved Boron (B)	2021/08/25	NC		%	20
			Dissolved Cadmium (Cd)	2021/08/25	NC		%	20
			Dissolved Calcium (Ca)	2021/08/25	0.69		%	20
			Dissolved Chromium (Cr)	2021/08/25	NC		%	20
			Dissolved Cobalt (Co)	2021/08/25	NC		%	20
			Dissolved Copper (Cu)	2021/08/25	10		%	20
			Dissolved Iron (Fe)	2021/08/25	NC		%	20



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Lead (Pb)	2021/08/25	NC		%	20
			Dissolved Magnesium (Mg)	2021/08/25	0.12		%	20
			Dissolved Manganese (Mn)	2021/08/25	2.0		%	20
			Dissolved Molybdenum (Mo)	2021/08/25	NC		%	20
			Dissolved Nickel (Ni)	2021/08/25	NC		%	20
			Dissolved Phosphorus (P)	2021/08/25	NC		%	20
			Dissolved Potassium (K)	2021/08/25	0.97		%	20
			Dissolved Selenium (Se)	2021/08/25	NC		%	20
			Dissolved Silver (Ag)	2021/08/25	NC		%	20
			Dissolved Sodium (Na)	2021/08/25	0.0027		%	20
			Dissolved Strontium (Sr)	2021/08/25	1.5		%	20
			Dissolved Thallium (Tl)	2021/08/25	NC		%	20
			Dissolved Tin (Sn)	2021/08/25	NC		%	20
			Dissolved Titanium (Ti)	2021/08/25	NC		%	20
			Dissolved Uranium (U)	2021/08/25	NC		%	20
			Dissolved Vanadium (V)	2021/08/25	NC		%	20
			Dissolved Zinc (Zn)	2021/08/25	NC		%	20
7540277	NHU	Matrix Spike	Total Mercury (Hg)	2021/08/26		104	%	80 - 120
7540277	NHU	Spiked Blank	Total Mercury (Hg)	2021/08/26		103	%	80 - 120
7540277	NHU	Method Blank	Total Mercury (Hg)	2021/08/26	<0.013		ug/L	
7540277	NHU	RPD	Total Mercury (Hg)	2021/08/26	NC		%	20
7540288	NHU	Matrix Spike [QLH270-07]	Dissolved Mercury (Hg)	2021/08/26		102	%	80 - 120
7540288	NHU	Spiked Blank	Dissolved Mercury (Hg)	2021/08/26		105	%	80 - 120
7540288	NHU	Method Blank	Dissolved Mercury (Hg)	2021/08/26	<0.013		ug/L	
7540288	NHU	RPD [QLH269-07]	Dissolved Mercury (Hg)	2021/08/26	NC		%	20
7542446	SHW	Spiked Blank	Conductivity	2021/08/26		99	%	80 - 120
7542446	SHW	Method Blank	Conductivity	2021/08/26	<1.0		uS/cm	
7542446	SHW	RPD	Conductivity	2021/08/26	0.66		%	10
7542447	SHW	Spiked Blank	pH	2021/08/26		100	%	97 - 103
7542447	SHW	RPD	pH	2021/08/26	1.6		%	N/A
7542472	NGI	Matrix Spike	Total Organic Carbon (C)	2021/08/26		97	%	85 - 115
7542472	NGI	Spiked Blank	Total Organic Carbon (C)	2021/08/26		100	%	80 - 120
7542472	NGI	Method Blank	Total Organic Carbon (C)	2021/08/26	<0.50		mg/L	
7542472	NGI	RPD	Total Organic Carbon (C)	2021/08/26	0.44		%	15
7542473	NGI	Matrix Spike [QLH274-05]	Total Organic Carbon (C)	2021/08/26		NC	%	85 - 115
7542473	NGI	Spiked Blank	Total Organic Carbon (C)	2021/08/26		100	%	80 - 120
7542473	NGI	Method Blank	Total Organic Carbon (C)	2021/08/26	<0.50		mg/L	
7542473	NGI	RPD [QLH274-05]	Total Organic Carbon (C)	2021/08/26	0.094 (1)		%	15
7542477	NGI	Matrix Spike	Total Organic Carbon (C)	2021/08/27		99	%	85 - 115
7542477	NGI	Spiked Blank	Total Organic Carbon (C)	2021/08/27		101	%	80 - 120
7542477	NGI	Method Blank	Total Organic Carbon (C)	2021/08/27	<0.50		mg/L	
7542477	NGI	RPD	Total Organic Carbon (C)	2021/08/27	2.5		%	15
7542645	SHW	Spiked Blank	Conductivity	2021/08/26		98	%	80 - 120
7542645	SHW	Method Blank	Conductivity	2021/08/26	<1.0		uS/cm	
7542645	SHW	RPD	Conductivity	2021/08/26	1.4		%	10
7542648	SHW	Spiked Blank	pH	2021/08/26		100	%	97 - 103
7542648	SHW	RPD	pH	2021/08/26	0.45		%	N/A
7542657	SHW	Spiked Blank	Conductivity	2021/08/26		97	%	80 - 120
7542657	SHW	Method Blank	Conductivity	2021/08/26	<1.0		uS/cm	
7542657	SHW	RPD [QLH274-02]	Conductivity	2021/08/26	0.74		%	10
7542659	SHW	Spiked Blank	pH	2021/08/26		100	%	97 - 103
7542659	SHW	RPD [QLH274-02]	pH	2021/08/26	14 (2)		%	N/A



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7542834	NHU	Matrix Spike [QLH278-07]	Dissolved Mercury (Hg)	2021/08/27		107	%	80 - 120
7542834	NHU	Spiked Blank	Dissolved Mercury (Hg)	2021/08/27		106	%	80 - 120
7542834	NHU	Method Blank	Dissolved Mercury (Hg)	2021/08/27	<0.013		ug/L	
7542834	NHU	RPD [QLH277-07]	Dissolved Mercury (Hg)	2021/08/27	0		%	20
7544928	NGI	Matrix Spike	Dissolved Organic Carbon (C)	2021/08/27		97	%	85 - 115
7544928	NGI	Spiked Blank	Dissolved Organic Carbon (C)	2021/08/27		100	%	80 - 120
7544928	NGI	Method Blank	Dissolved Organic Carbon (C)	2021/08/27	<0.50		mg/L	
7544928	NGI	RPD	Dissolved Organic Carbon (C)	2021/08/27	0.63		%	15
7561628	EMT	Matrix Spike [QLH272-08]	Nitrogen (Ammonia Nitrogen)	2021/09/07		99	%	80 - 120
7561628	EMT	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2021/09/07		107	%	80 - 120
7561628	EMT	Method Blank	Nitrogen (Ammonia Nitrogen)	2021/09/07	<0.050		mg/L	
7561628	EMT	RPD [QLH272-08]	Nitrogen (Ammonia Nitrogen)	2021/09/07	NC		%	20
7561633	EMT	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2021/09/07		104	%	80 - 120
7561633	EMT	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2021/09/07		106	%	80 - 120
7561633	EMT	Method Blank	Nitrogen (Ammonia Nitrogen)	2021/09/07	<0.050		mg/L	
7561633	EMT	RPD	Nitrogen (Ammonia Nitrogen)	2021/09/07	NC		%	20
7562345	EMT	Matrix Spike	Total Alkalinity (Total as CaCO ₃)	2021/09/08		NC	%	80 - 120
7562345	EMT	Spiked Blank	Total Alkalinity (Total as CaCO ₃)	2021/09/08		105	%	80 - 120
7562345	EMT	Method Blank	Total Alkalinity (Total as CaCO ₃)	2021/09/08	<5.0		mg/L	
7562345	EMT	RPD	Total Alkalinity (Total as CaCO ₃)	2021/09/08	2.8		%	20
7562347	EMT	Matrix Spike	Dissolved Chloride (Cl ⁻)	2021/09/08		99	%	80 - 120
7562347	EMT	Spiked Blank	Dissolved Chloride (Cl ⁻)	2021/09/08		103	%	80 - 120
7562347	EMT	Method Blank	Dissolved Chloride (Cl ⁻)	2021/09/08	<1.0		mg/L	
7562347	EMT	RPD	Dissolved Chloride (Cl ⁻)	2021/09/08	0.75		%	20
7562348	EMT	Matrix Spike	Dissolved Sulphate (SO ₄)	2021/09/08		109	%	80 - 120
7562348	EMT	Spiked Blank	Dissolved Sulphate (SO ₄)	2021/09/08		105	%	80 - 120
7562348	EMT	Method Blank	Dissolved Sulphate (SO ₄)	2021/09/08	<2.0		mg/L	
7562348	EMT	RPD	Dissolved Sulphate (SO ₄)	2021/09/08	NC		%	20
7562350	EMT	Matrix Spike	Reactive Silica (SiO ₂)	2021/09/08		94	%	80 - 120
7562350	EMT	Spiked Blank	Reactive Silica (SiO ₂)	2021/09/08		103	%	80 - 120
7562350	EMT	Method Blank	Reactive Silica (SiO ₂)	2021/09/08	<0.50		mg/L	
7562350	EMT	RPD	Reactive Silica (SiO ₂)	2021/09/08	0.75		%	20
7562351	EMT	Spiked Blank	Colour	2021/09/08		93	%	80 - 120
7562351	EMT	Method Blank	Colour	2021/09/08	<5.0		TCU	
7562351	EMT	RPD	Colour	2021/09/08	2.4		%	20
7562353	EMT	Matrix Spike	Orthophosphate (P)	2021/09/08		92	%	80 - 120
7562353	EMT	Spiked Blank	Orthophosphate (P)	2021/09/08		94	%	80 - 120
7562353	EMT	Method Blank	Orthophosphate (P)	2021/09/08	<0.010		mg/L	
7562353	EMT	RPD	Orthophosphate (P)	2021/09/08	0.82		%	20
7562354	EMT	Matrix Spike	Nitrate + Nitrite (N)	2021/09/08		92	%	80 - 120
7562354	EMT	Spiked Blank	Nitrate + Nitrite (N)	2021/09/08		95	%	80 - 120
7562354	EMT	Method Blank	Nitrate + Nitrite (N)	2021/09/08	<0.050		mg/L	
7562354	EMT	RPD	Nitrate + Nitrite (N)	2021/09/08	17		%	20
7562355	EMT	Matrix Spike	Nitrite (N)	2021/09/08		86	%	80 - 120
7562355	EMT	Spiked Blank	Nitrite (N)	2021/09/08		97	%	80 - 120
7562355	EMT	Method Blank	Nitrite (N)	2021/09/08	<0.010		mg/L	
7562355	EMT	RPD	Nitrite (N)	2021/09/08	NC		%	20
7569567	BAN	Matrix Spike	Dissolved Cadmium (Cd)	2021/09/10		100	%	80 - 120
			Dissolved Manganese (Mn)	2021/09/10		NC	%	80 - 120
			Dissolved Zinc (Zn)	2021/09/10		98	%	80 - 120
7569567	BAN	Spiked Blank	Dissolved Cadmium (Cd)	2021/09/10		95	%	80 - 120
			Dissolved Manganese (Mn)	2021/09/10		97	%	80 - 120



BV Labs Job #: C1N9184
Report Date: 2021/09/14

Anaconda Mining Inc
Client Project #: GOLDBORO SURFACE WATER
Site Location: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7569567	BAN	Method Blank	Dissolved Zinc (Zn)	2021/09/10		94	%	80 - 120
			Dissolved Cadmium (Cd)	2021/09/10	<0.010		ug/L	
			Dissolved Manganese (Mn)	2021/09/10	<2.0		ug/L	
7569567	BAN	RPD	Dissolved Zinc (Zn)	2021/09/10	<5.0		ug/L	
			Dissolved Cadmium (Cd)	2021/09/10	NC		%	20
			Dissolved Manganese (Mn)	2021/09/10	0.74		%	20
			Dissolved Zinc (Zn)	2021/09/10	NC		%	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference $\leq 2 \times \text{RDL}$).

(1) Elevated reporting limit due to sample matrix.

(2) Poor duplicate agreement due to sample matrix, results confirmed by repeat analysis



BV Labs Job #: C1N9184
Report Date: 2021/09/14

Anaconda Mining Inc
Client Project #: GOLDBORO SURFACE WATER
Site Location: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "Eric Dearman".

Eric Dearman, Scientific Specialist

A handwritten signature in black ink, appearing to read "Mike MacGillivray".

Mike MacGillivray, Scientific Specialist (Inorganics)

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
For Service Group specific validation please refer to the Validation Signature Page.



DALHOUSIE
UNIVERSITY

Inspiring Minds

Department of Oceanography
1355 Oxford St
Halifax, NS
B3H 4R2

Determination of chlorophyll a by fluorescence

Client: Bureau Veritas Laboratories, 200 Bluewater Road, Bedford, NS, B4B 1G9

Attention: Maryann Comeau

Received: 2021-08-24

Project #: C1N9184

Completed: 2021-08-27

Hugh MacIntyre

Hugh MacIntyre, Ph.D.

Chl *a* (chlorophyll *a* ; $\mu\text{g L}^{-1}$) determined by the acidification method (Holm-Hansen et al., 1965). Estimates made with the non-acidification method (Welschmeyer, 1994) are shown for comparison.

The non-acidification method is considered more reliable than the acidification method in correcting for bias due to the contributions of chlorophyll *b* and chlorophyll degradation products.

Holm-Hansen O, Lorenzen CJ, Holmes RW, Strickland JDH (1965) Fluorometric determination of chlorophyll.

J Conseil 30:3-15

Welschmeyer NA (1994) Fluorometric analysis of chlorophyll *a* in the presence of chlorophyll *b* and phaeopigments.

Limnol Oceanogr 39:1985-1992

Contractor ID	Client ID	Chl a (acidification)	Chl a (non-acidification)
QLH269-01R	SW-11-21	0.898	1.28
QLH270-01R	SW-12-21	2.61	3.29
QLH271-01R	SW-13-21	0.193	0.325
QLH272-01R	SW-14-21	0.382	0.58
QLH273-01R	SW-15-21	3.33	4.17
QLH274-01R	SW-16-21	1.74	1.96
QLH275-01R	SW-17-21	0.419	0.635
QLH276-01R	SW-18-21	8.76	12.6
QLH277-01R	SW-19-21	7.55	9.74

Contractor ID	Client ID	Chl a (acidification)	Chl a (non-acidification)
QLH278-01R	SW-20-21	0.319	0.45
QLH279-01R	SWDUPA	1.92	2.25

Methyl Mercury Results

Flett Research Ltd.

440 DeSalaberry Ave. Winnipeg, MB R2L 0Y7
Fax/Phone (204) 667-2505

E-mail: flett@flettresearch.ca Webpage: http://www.flettresearch.ca

MTWATR090221J52
Page 1 of 1

CLIENT: Bureau Veritas - Bedford: C1N9184

200 Bluewater Road, Suite 105
Bedford, NS B4B 1G9

Date Received: August 25, 2021

Sampling Date: August 19, 2021 to August 20, 2021

Date Issued: September 7, 2021

Matrix: Water

Transaction ID: 894

PO/Contract No.:

Date Analysed: September 2, 2021

Analyst(s): Jason S.

Analytical Method: M10211: Methyl Mercury in Water by Distillation, Aqueous Ethylation, Purge and Trap, and CVAFS - Tekran 2700 Mercury Analyser (Version 2)

Comments: Samples had particulates present. Samples (except for SW-15-21 and SWDUPA) were also yellowish in colour.

Detection Limit: The method detection limit (MDL) for this method is 0.0035 ng/L. The MDL is the minimum concentration that can be reported with 99% confidence that the measured concentration exceeds zero and is based on the distillation of 45mL of raw sample and analysis of either 20 or 30mL of a 40mL distillate.

For reporting purpose samples are flagged when concentration is below the methods EPA defined minimum level (ML= 0.0135 ng/L).
As concentration rises above the MDL confidence that the analyte is present approaches 100% at and above the ML.

Estimated Uncertainty: Overall uncertainty decreases as analyte concentration increases. When methyl mercury concentrations exceed 0.03ng/L the estimated uncertainty of the method is $\pm 15\%$. At a concentration of 0.01ng/L uncertainty is $\pm 23\%$. Method uncertainty for concentrations at MDL is $\pm 75\%$ (0.0035 $\pm$ 0.0026 ng/L). All method uncertainties are expressed at a 95% confidence level of (k=2).

Results authorized by Dr. Robert J. Flett, Chief Scientist

QUALITY DATA

QUALITY DATA	Blanks			Pg of CH3Hg in the Ethylation Blank		Mean Gross Peak Area	CH3Hg in the Ethylation Blank (ng/L) assumes volume is 30mL			
			Ethylation blank (H2O+Reagents)		0.15	11.77	0.005			
			Mean Eth. Blank (last 30 runs)		0.18					
			Net Pg CH3Hg in the Method Blank (Eth. Blank subtracted)		Gross Peak Area	Net CH3Hg in the Method Blank (ng/L) (Eth. Blank subtracted)				
			Method Blank 1		0.24	30.45	0.010			
			Method Blank 2		0.20	27.26	0.009			
			Method Blank 3		0.18	25.16	0.008			
	Mean Method Blank				0.009					
	Mean Calibration Factor (area units / pg)		76.28 ± 3 %RSD							
	Spike Recovery Matrix Spike (MS) and Matrix Spike Duplicate (MSD)		Sample ID (Details)	Sample Type	Gross Peak Area	Volume of Water Sample Distilled (mL)	% CH3Hg Recovery Used for Calculations	Net CH3Hg as Hg (ng/L)	CH3Hg Recovery (%)	
			QLH271-09R (SW-13-21)	MS2	1979.19	20.21	100%	2.58	86.3	
			QLH271-09R (SW-13-21)	MS2D	1795.49	21.38	100%	2.24	76.8	
			Mean of Spike Recoveries						81.6	
			QC Samples		MeOPR ID1701 (1000ng/L)	(beginning of run)	950.93	0.050	100%	952
Ongoing Precision & Recovery (OPR)		MeOPR ID1701 (1000ng/L)	(end of run)	1065.61	0.050	100%	933	93.3		
		MeOPR ID1701 (1000ng/L)	(beginning of run)	1126.53	0.050	100%	978	97.8		
		MeOPR ID1701 (1000ng/L)	(end of run)	1032.30	0.050	100%	951	95.1		
		Mean of MeOPR					954	95.4		
		Alternate Source Standard (A.S.S.)		A.S.S.-Alfa ID1301 (1000 ng/L)		2368.20		100%	1030	103.0
LAB ID	Sampling Details	Sample ID	Date Sampled	Time Sampled	Sample Type	Gross Peak Area	Volume of Water Sample Distilled (mL)	% CH3Hg Recovery Used for Calculations	Net CH3Hg in the Sample as Hg (ng/L) [Ethylation & Method Blank subtracted] [recovery corrected]	
106193	QLH269-09R	SW-11-21	August 20, 2021	09:38	DupA1	400.27	10.59	81.6%	1.20	
106193	QLH269-09R	SW-11-21	August 20, 2021	09:38	DupA2	420.33	10.74	81.6%	1.17	
106194	QLH270-09R	SW-12-21	August 19, 2021	19:35		193.12	20.86	81.6%	0.251	
106195	QLH271-09R	SW-13-21	August 19, 2021	18:50		386.69	20.94	81.6%	0.549	
106196	QLH272-09R	SW-14-21	August 19, 2021	17:42		224.02	20.06	81.6%	0.330	
106197	QLH273-09R	SW-15-21	August 20, 2021	11:14		55.38	48.42	81.6%	0.019	
106198	QLH274-09R	SW-16-21	August 19, 2021	16:42		385.65	22.48	81.6%	0.548	
106199	QLH275-09R	SW-17-21	August 19, 2021	14:30		279.89	20.64	81.6%	0.357	
106200	QLH276-09R	SW-18-21	August 20, 2021	13:27	DupB1	1097.04	5.84	81.6%	6.50	
106200	QLH276-09R	SW-18-21	August 20, 2021	13:27	DupB2	1237.40	6.29	81.6%	6.17	
106201	QLH277-09R	SW-19-21	August 20, 2021	13:45		996.10	9.56	81.6%	6.13	
106202	QLH278-09R	SW-20-21	August 19, 2021	13:23		447.90	20.93	81.6%	0.666	
106203	QLH279-09R	SWDUPA	August 20, 2021	12:00		73.68	47.99	81.6%	0.033	

Q:\Clients A\Bureau Veritas - Bedford\2021\894\Methyl Mercury\MTWATR090221J52.xls

* : See 'Comments' section above for discussion.

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Note: Results relate only to the items tested.

Dup : Duplicate - two subsamples of the same sample carried through the analytical procedure in an identical manner.



ISO/IEC 17025:2017 Accredited with the Canadian Association of Laboratory Accreditation

M10211-1 Version 021921



Your C.O.C. #: 839705-01-01, 839705-02-01

Attention: Derek Bullock

Anaconda Mining Inc
Goldboro Gold Mine
570 Goldbrook Road
Goldboro, NS
Canada BOH 1L0

Report Date: 2021/10/14

Report #: R6852847

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1R8048

Received: 2021/09/23, 16:40

Sample Matrix: Water
Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Carbonate, Bicarbonate and Hydroxide	11	N/A	2021/09/29	N/A	SM 23 4500-CO2 D
Alkalinity	11	N/A	2021/10/04	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	6	N/A	2021/10/01	ATL SOP 00014	SM 23 4500-Cl- E m
Chloride	5	N/A	2021/10/03	ATL SOP 00014	SM 23 4500-Cl- E m
Colour	11	N/A	2021/10/04	ATL SOP 00020	SM 23 2120C m
Organic carbon - Diss (DOC) (3)	2	N/A	2021/10/03	ATL SOP 00203	SM 23 5310B m
Organic carbon - Diss (DOC) (3)	2	N/A	2021/10/04	ATL SOP 00203	SM 23 5310B m
Organic carbon - Diss (DOC) (3)	7	N/A	2021/10/05	ATL SOP 00203	SM 23 5310B m
Conductance - water	11	N/A	2021/09/29	ATL SOP 00004	SM 23 2510B m
Hardness (calculated as CaCO3)	1	N/A	2021/10/01	ATL SOP 00048	Auto Calc
Hardness (calculated as CaCO3)	10	N/A	2021/09/30	ATL SOP 00048	Auto Calc
Mercury - Dissolved (CVAA,LL)	11	2021/10/05	2021/10/05	ATL SOP 00026	EPA 245.1 R3 m
Mercury - Total (CVAA,LL)	11	2021/10/04	2021/10/04	ATL SOP 00026	EPA 245.1 R3 m
Metals Water Diss. MS (4)	1	N/A	2021/09/29	ATL SOP 00058	EPA 6020B R2 m
Metals Water Diss. MS (as rec'd)	10	N/A	2021/09/29	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	6	2021/09/29	2021/10/01	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	5	2021/09/29	2021/09/30	ATL SOP 00058	EPA 6020B R2 m
Ion Balance (% Difference)	11	N/A	2021/10/05	N/A	Auto Calc.
Anion and Cation Sum	11	N/A	2021/10/04	N/A	Auto Calc.
Nitrogen Ammonia - water	11	N/A	2021/10/01	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	11	N/A	2021/10/04	ATL SOP 00016	USGS I-2547-11m
Nitrogen - Nitrite	6	N/A	2021/10/01	ATL SOP 00017	SM 23 4500-NO2- B m
Nitrogen - Nitrite	5	N/A	2021/10/03	ATL SOP 00017	SM 23 4500-NO2- B m
Nitrogen - Nitrate (as N)	11	N/A	2021/10/04	ATL SOP 00018	ASTM D3867-16
pH (5)	11	N/A	2021/09/29	ATL SOP 00003	SM 23 4500-H+ B m
Phosphorus - ortho	11	N/A	2021/10/04	ATL SOP 00021	SM 23 4500-P E m
Sat. pH and Langelier Index (@ 20C)	11	N/A	2021/10/05	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	11	N/A	2021/10/05	ATL SOP 00049	Auto Calc.
Reactive Silica	6	N/A	2021/10/01	ATL SOP 00022	EPA 366.0 m
Reactive Silica	5	N/A	2021/10/03	ATL SOP 00022	EPA 366.0 m
Sulphate	6	N/A	2021/10/01	ATL SOP 00023	ASTM D516-16 m



Your C.O.C. #: 839705-01-01, 839705-02-01

Attention: Derek Bullock

Anaconda Mining Inc
Goldboro Gold Mine
570 Goldbrook Road
Goldboro, NS
Canada BOH 1L0

Report Date: 2021/10/14

Report #: R6852847

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1R8048

Received: 2021/09/23, 16:40

Sample Matrix: Water
Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Sulphate	5	N/A	2021/10/03	ATL SOP 00023	ASTM D516-16 m
Chlorophyll A (Sub from Bedford) (1)	11	2021/10/04	2021/10/01		
Methyl Mercury (sub from Bedford) (2)	11	N/A	2021/10/12		EPA 1630
Total Dissolved Solids (TDS calc)	11	N/A	2021/10/05	N/A	Auto Calc.
Organic carbon - Total (TOC) (3)	4	N/A	2021/10/05	ATL SOP 00203	SM 23 5310B m
Organic carbon - Total (TOC) (3)	7	N/A	2021/10/06	ATL SOP 00203	SM 23 5310B m
Turbidity	11	N/A	2021/09/29	ATL SOP 00011	EPA 180.1 R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Dalhousie University, 1355 Oxford Street Dept of Oceanography Rm 2605, Halifax, NS, B3H 4R2

(2) This test was performed by Flett Research Ltd., 440 DeSalaberry Ave. , Winnipeg, MB, R2L0Y7

(3) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

(4) Sample filtered in laboratory prior to analysis for dissolved metals.

(5) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this



Your C.O.C. #: 839705-01-01, 839705-02-01

Attention: Derek Bullock

Anaconda Mining Inc
Goldboro Gold Mine
570 Goldbrook Road
Goldboro, NS
Canada BOH 1L0

Report Date: 2021/10/14

Report #: R6852847

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1R8048

Received: 2021/09/23, 16:40

report are reported past the APHA Standard Method holding time.

Encryption Key



Bureau Veritas

14 Oct 2021 16:15:01

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Maryann Comeau, Customer Experience Supervisor/PM

Email: Maryann.COMEAU@bureauveritas.com

Phone# (902)420-0203 Ext:298

=====

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RESULTS OF ANALYSES OF WATER

BV Labs ID		QTJ079			QTJ080			QTJ081		
Sampling Date		2021/09/22 12:38			2021/09/22 17:30			2021/09/22 11:31		
COC Number		839705-01-01			839705-01-01			839705-01-01		
	UNITS	SW-11-21	RDL	QC Batch	SW-12-21	RDL	QC Batch	SW-13-21	RDL	QC Batch

Calculated Parameters										
Anion Sum	me/L	0.230	N/A	7600637	0.160	N/A	7600788	0.200	N/A	7600788
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7600732	<1.0	1.0	7600732	<1.0	1.0	7600732
Calculated TDS	mg/L	21	1.0	7600790	13	1.0	7600791	21	1.0	7600791
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7600732	<1.0	1.0	7600732	<1.0	1.0	7600732
Cation Sum	me/L	0.430	N/A	7600637	0.260	N/A	7600788	0.410	N/A	7600788
Hardness (CaCO ₃)	mg/L	7.2	1.0	7600734	3.2	1.0	7600734	5.7	1.0	7600734
Ion Balance (% Difference)	%	30.3	N/A	7600634	23.8	N/A	7600787	34.4	N/A	7600787
Langelier Index (@ 20C)	N/A	NC		7600750	NC		7600750	NC		7600750
Langelier Index (@ 4C)	N/A	NC		7600753	NC		7600753	NC		7600753
Nitrate (N)	mg/L	<0.050	0.050	7600735	<0.050	0.050	7600735	<0.050	0.050	7600735
Saturation pH (@ 20C)	N/A	NC		7600750	NC		7600750	NC		7600750
Saturation pH (@ 4C)	N/A	NC		7600753	NC		7600753	NC		7600753

Inorganics										
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7612292	<5.0	5.0	7612864	<5.0	5.0	7612292
Dissolved Chloride (Cl ⁻)	mg/L	8.1	1.0	7612297	5.8	1.0	7612871	7.2	1.0	7612297
Colour	TCU	300	50	7612300	140	25	7612875	420	50	7612300
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7612302	<0.050	0.050	7612877	<0.050	0.050	7612302
Nitrite (N)	mg/L	<0.010	0.010	7612303	<0.010	0.010	7612878	<0.010	0.010	7612303
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7610611	<0.050	0.050	7610611	<0.050	0.050	7610611
Dissolved Organic Carbon (C)	mg/L	29	0.50	7612325	11	0.50	7615660	45	0.50	7612258
Total Organic Carbon (C)	mg/L	31	0.50	7618252	13	0.50	7618237	49	0.50	7618237
Orthophosphate (P)	mg/L	0.016	0.010	7612301	<0.010	0.010	7612876	<0.010	0.010	7612301
pH	pH	5.76		7606946	5.82		7606946	5.04		7606946
Reactive Silica (SiO ₂)	mg/L	4.0	0.50	7612299	1.7	0.50	7612874	4.9	0.50	7612299
Dissolved Sulphate (SO ₄)	mg/L	<2.0	2.0	7612298	<2.0	2.0	7612872	<2.0	2.0	7612298
Turbidity	NTU	1.2	0.10	7607142	1.2	0.10	7607142	1.6	0.10	7607142
Conductivity	uS/cm	44	1.0	7606944	30	1.0	7606944	53	1.0	7606944

Subcontracted Analysis										
Subcontract Parameter	N/A	ATTACHED	N/A	7622017	ATTACHED	N/A	7622017	ATTACHED	N/A	7622017
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable										



RESULTS OF ANALYSES OF WATER

BV Labs ID		QTJ082			QTJ083			QTJ084		
Sampling Date		2021/09/22 12:45			2021/09/22 10:11			2021/09/22 13:55		
COC Number		839705-01-01			839705-01-01			839705-01-01		
	UNITS	SW-14-21	RDL	QC Batch	SW-15-21	RDL	QC Batch	SW-16-21	RDL	QC Batch

Calculated Parameters										
Anion Sum	me/L	0.190	N/A	7600788	0.150	N/A	7600788	0.250	N/A	7600788
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7600732	<1.0	1.0	7600732	<1.0	1.0	7600732
Calculated TDS	mg/L	18	1.0	7600791	12	1.0	7600791	22	1.0	7600791
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7600732	<1.0	1.0	7600732	<1.0	1.0	7600732
Cation Sum	me/L	0.350	N/A	7600788	0.220	N/A	7600788	0.370	N/A	7600788
Hardness (CaCO ₃)	mg/L	4.8	1.0	7600734	2.8	1.0	7600734	5.9	1.0	7600734
Ion Balance (% Difference)	%	29.6	N/A	7600787	18.9	N/A	7600787	19.4	N/A	7600787
Langelier Index (@ 20C)	N/A	NC		7600750	NC		7600750	NC		7600750
Langelier Index (@ 4C)	N/A	NC		7600753	NC		7600753	NC		7600753
Nitrate (N)	mg/L	<0.050	0.050	7600735	<0.050	0.050	7600735	<0.050	0.050	7600735
Saturation pH (@ 20C)	N/A	NC		7600750	NC		7600750	NC		7600750
Saturation pH (@ 4C)	N/A	NC		7600753	NC		7600753	NC		7600753

Inorganics										
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7612292	<5.0	5.0	7612892	<5.0	5.0	7612292
Dissolved Chloride (Cl ⁻)	mg/L	6.7	1.0	7612297	5.5	1.0	7612885	8.9	1.0	7612297
Colour	TCU	270	50	7612300	26	5.0	7612894	330	50	7612300
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7612302	<0.050	0.050	7612896	<0.050	0.050	7612302
Nitrite (N)	mg/L	<0.010	0.010	7612303	<0.010	0.010	7612898	<0.010	0.010	7612303
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7610611	<0.050	0.050	7610611	<0.050	0.050	7610611
Dissolved Organic Carbon (C)	mg/L	27	0.50	7612325	4.0	0.50	7612258	36	0.50	7615660
Total Organic Carbon (C)	mg/L	28	0.50	7618237	4.1	0.50	7618252	40	0.50	7618252
Orthophosphate (P)	mg/L	<0.010	0.010	7612301	<0.010	0.010	7612895	<0.010	0.010	7612301
pH	pH	5.22		7606946	5.86		7606946	5.11		7606946
Reactive Silica (SiO ₂)	mg/L	3.8	0.50	7612299	1.8	0.50	7612893	5.1	0.50	7612299
Dissolved Sulphate (SO ₄)	mg/L	<2.0	2.0	7612298	<2.0	2.0	7612891	<2.0	2.0	7612298
Turbidity	NTU	0.92	0.10	7607142	0.68	0.10	7607142	0.95	0.10	7607142
Conductivity	uS/cm	42	1.0	7606944	27	1.0	7606944	48	1.0	7606944

Subcontracted Analysis										
Subcontract Parameter	N/A	ATTACHED	N/A	7622017	ATTACHED	N/A	7622017	ATTACHED	N/A	7622017
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable										



RESULTS OF ANALYSES OF WATER

BV Labs ID		QTJ085			QTJ086		QTJ087		
Sampling Date		2021/09/22 15:05			2021/09/22 13:41		2021/09/22 13:58		
COC Number		839705-01-01			839705-01-01		839705-01-01		
	UNITS	SW-17-21	RDL	QC Batch	SW-18-21	QC Batch	SW-19-21	RDL	QC Batch
Calculated Parameters									
Anion Sum	me/L	0.230	N/A	7600788	0.390	7600788	0.240	N/A	7600788
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7600732	<1.0	7600732	<1.0	1.0	7600732
Calculated TDS	mg/L	22	1.0	7600791	30	7600791	22	1.0	7600791
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7600732	<1.0	7600732	<1.0	1.0	7600732
Cation Sum	me/L	0.400	N/A	7600788	0.430	7600788	0.430	N/A	7600788
Hardness (CaCO ₃)	mg/L	6.3	1.0	7600734	6.4	7600734	5.5	1.0	7600734
Ion Balance (% Difference)	%	27.0	N/A	7600787	4.88	7600787	28.4	N/A	7600787
Langelier Index (@ 20C)	N/A	NC		7600750	NC	7600750	NC		7600750
Langelier Index (@ 4C)	N/A	NC		7600753	NC	7600753	NC		7600753
Nitrate (N)	mg/L	<0.050	0.050	7600735	<0.050	7600735	<0.050	0.050	7600735
Saturation pH (@ 20C)	N/A	NC		7600750	NC	7600750	NC		7600750
Saturation pH (@ 4C)	N/A	NC		7600753	NC	7600753	NC		7600753
Inorganics									
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7612225	<5.0	7612864	<5.0	5.0	7612864
Dissolved Chloride (Cl ⁻)	mg/L	8.0	1.0	7612230	14	7612871	8.5	1.0	7612871
Colour	TCU	450	100	7612233	380	7612875	430	50	7612875
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7612236	<0.050	7612877	<0.050	0.050	7612877
Nitrite (N)	mg/L	<0.010	0.010	7612239	<0.010	7612878	<0.010	0.010	7612878
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7610611	<0.050	7610611	<0.050	0.050	7610611
Dissolved Organic Carbon (C)	mg/L	46	0.50	7615660	35	7615660	49	0.50	7615660
Total Organic Carbon (C)	mg/L	47	0.50	7618212	51	7618252	53	0.50	7618252
Orthophosphate (P)	mg/L	<0.010	0.010	7612235	<0.010	7612876	<0.010	0.010	7612876
pH	pH	5.00		7606946	5.55	7606976	4.96		7606946
Reactive Silica (SiO ₂)	mg/L	5.9	0.50	7612231	6.0	7612874	4.6	0.50	7612874
Dissolved Sulphate (SO ₄)	mg/L	<2.0	2.0	7612240	<2.0	7612872	<2.0	2.0	7612872
Turbidity	NTU	1.2	0.10	7607142	26	7607142	14	0.10	7607142
Conductivity	uS/cm	54	1.0	7606944	44	7606952	56	1.0	7606944
Subcontracted Analysis									
Subcontract Parameter	N/A	ATTACHED	N/A	7622017	ATTACHED	7622017	ATTACHED	N/A	7622017
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									



RESULTS OF ANALYSES OF WATER

BV Labs ID		QTJ088			QTJ102		
Sampling Date		2021/09/22 16:34			2021/09/22 12:06		
COC Number		839705-01-01			839705-02-01		
	UNITS	SW-20-21	RDL	QC Batch	SWDUPA	RDL	QC Batch
Calculated Parameters							
Anion Sum	me/L	0.200	N/A	7600788	0.230	N/A	7600788
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7600732	<1.0	1.0	7600732
Calculated TDS	mg/L	21	1.0	7600791	16	1.0	7600791
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7600732	<1.0	1.0	7600732
Cation Sum	me/L	0.390	N/A	7600788	0.220	N/A	7600788
Hardness (CaCO ₃)	mg/L	5.5	1.0	7600734	2.8	1.0	7600734
Ion Balance (% Difference)	%	32.2	N/A	7600787	2.22	N/A	7600787
Langelier Index (@ 20C)	N/A	NC		7600750	NC		7600750
Langelier Index (@ 4C)	N/A	NC		7600753	NC		7600753
Nitrate (N)	mg/L	<0.050	0.050	7600735	<0.050	0.050	7600735
Saturation pH (@ 20C)	N/A	NC		7600750	NC		7600750
Saturation pH (@ 4C)	N/A	NC		7600753	NC		7600753
Inorganics							
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7612892	<5.0	5.0	7612257
Dissolved Chloride (Cl ⁻)	mg/L	7.0	1.0	7612885	4.7	1.0	7612265
Colour	TCU	360	50	7612894	26	5.0	7612281
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7612896	<0.050	0.050	7612284
Nitrite (N)	mg/L	<0.010	0.010	7612898	<0.010	0.010	7612285
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7610611	<0.050	0.050	7610611
Dissolved Organic Carbon (C)	mg/L	37	0.50	7615660	3.9	0.50	7615660
Total Organic Carbon (C)	mg/L	41	0.50	7618252	4.0	0.50	7618252
Orthophosphate (P)	mg/L	<0.010	0.010	7612895	<0.010	0.010	7612282
pH	pH	5.17		7606946	5.83		7606946
Reactive Silica (SiO ₂)	mg/L	5.2	0.50	7612893	1.7	0.50	7612268
Dissolved Sulphate (SO ₄)	mg/L	<2.0	2.0	7612891	4.7	2.0	7612266
Turbidity	NTU	0.99	0.10	7607142	1.0	0.10	7607142
Conductivity	uS/cm	46	1.0	7606944	27	1.0	7606944
Subcontracted Analysis							
Subcontract Parameter	N/A	ATTACHED	N/A	7622017	ATTACHED	N/A	7622017
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable							



BV Labs Job #: C1R8048
Report Date: 2021/10/14

Anaconda Mining Inc
Sampler Initials: DB

MERCURY BY COLD VAPOUR AA (WATER)

BV Labs ID		QTJ079	QTJ080	QTJ081	QTJ082	QTJ083	QTJ084		
Sampling Date		2021/09/22 12:38	2021/09/22 17:30	2021/09/22 11:31	2021/09/22 12:45	2021/09/22 10:11	2021/09/22 13:55		
COC Number		839705-01-01	839705-01-01	839705-01-01	839705-01-01	839705-01-01	839705-01-01		
	UNITS	SW-11-21	SW-12-21	SW-13-21	SW-14-21	SW-15-21	SW-16-21	RDL	QC Batch

Metals

Dissolved Mercury (Hg)	ug/L	0.013	<0.013	0.015	<0.013	<0.013	<0.013	0.013	7615937
Total Mercury (Hg)	ug/L	<0.013	<0.013	0.013	<0.013	<0.013	<0.013	0.013	7612327

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

BV Labs ID		QTJ085	QTJ086	QTJ087	QTJ088	QTJ102		
Sampling Date		2021/09/22 15:05	2021/09/22 13:41	2021/09/22 13:58	2021/09/22 16:34	2021/09/22 12:06		
COC Number		839705-01-01	839705-01-01	839705-01-01	839705-01-01	839705-02-01		
	UNITS	SW-17-21	SW-18-21	SW-19-21	SW-20-21	SWDUPA	RDL	QC Batch

Metals

Dissolved Mercury (Hg)	ug/L	0.013	0.033	<0.013	<0.013	<0.013	0.013	7615937
Total Mercury (Hg)	ug/L	<0.013	<0.013	<0.013	<0.013	<0.013	0.013	7612327

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QTJ079		QTJ080			QTJ081		
Sampling Date		2021/09/22 12:38		2021/09/22 17:30			2021/09/22 11:31		
COC Number		839705-01-01		839705-01-01			839705-01-01		
	UNITS	SW-11-21	QC Batch	SW-12-21	RDL	QC Batch	SW-13-21	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	mg/L						0.805	0.0050	7607466
Dissolved Aluminum (Al)	ug/L	500	7607052	310	5.0	7607052	790	5.0	7607052
Total Aluminum (Al)	mg/L	0.494	7607078	0.329	0.0050	7607820	0.836	0.0050	7607820
Dissolved Antimony (Sb)	mg/L						<0.0010	0.0010	7607466
Dissolved Antimony (Sb)	ug/L	<1.0	7607052	<1.0	1.0	7607052	<1.0	1.0	7607052
Total Antimony (Sb)	mg/L	<0.0010	7607078	<0.0010	0.0010	7607820	<0.0010	0.0010	7607820
Dissolved Arsenic (As)	mg/L						0.0055	0.0010	7607466
Dissolved Arsenic (As)	ug/L	92	7607052	13	1.0	7607052	5.5	1.0	7607052
Total Arsenic (As)	mg/L	0.0866	7607078	0.0130	0.0010	7607820	0.0061	0.0010	7607820
Dissolved Barium (Ba)	mg/L						0.0046	0.0010	7607466
Dissolved Barium (Ba)	ug/L	3.6	7607052	2.2	1.0	7607052	4.7	1.0	7607052
Total Barium (Ba)	mg/L	0.0036	7607078	0.0024	0.0010	7607820	0.0048	0.0010	7607820
Dissolved Beryllium (Be)	mg/L						<0.00010	0.00010	7607466
Dissolved Beryllium (Be)	ug/L	<0.10	7607052	<0.10	0.10	7607052	<0.10	0.10	7607052
Total Beryllium (Be)	mg/L	<0.00010	7607078	<0.00010	0.00010	7607820	<0.00010	0.00010	7607820
Dissolved Bismuth (Bi)	mg/L						<0.0020	0.0020	7607466
Dissolved Bismuth (Bi)	ug/L	<2.0	7607052	<2.0	2.0	7607052	<2.0	2.0	7607052
Total Bismuth (Bi)	mg/L	<0.0020	7607078	<0.0020	0.0020	7607820	<0.0020	0.0020	7607820
Dissolved Boron (B)	mg/L						<0.050	0.050	7607466
Dissolved Boron (B)	ug/L	<50	7607052	<50	50	7607052	<50	50	7607052
Total Boron (B)	mg/L	<0.050	7607078	<0.050	0.050	7607820	<0.050	0.050	7607820
Dissolved Cadmium (Cd)	mg/L						0.000023	0.000010	7607466
Dissolved Cadmium (Cd)	ug/L	0.013	7607052	0.012	0.010	7607052	0.018	0.010	7607052
Total Cadmium (Cd)	mg/L	0.000014	7607078	0.000013	0.000010	7607820	0.000022	0.000010	7607820
Dissolved Calcium (Ca)	mg/L						0.91	0.10	7607466
Dissolved Calcium (Ca)	ug/L	1600	7607052	600	100	7607052	840	100	7607052
Total Calcium (Ca)	mg/L	1.59	7607078	0.57	0.10	7607820	0.88	0.10	7607820
Dissolved Chromium (Cr)	mg/L						<0.0010	0.0010	7607466
Dissolved Chromium (Cr)	ug/L	<1.0	7607052	<1.0	1.0	7607052	<1.0	1.0	7607052
Total Chromium (Cr)	mg/L	<0.0010	7607078	<0.0010	0.0010	7607820	<0.0010	0.0010	7607820
Dissolved Cobalt (Co)	mg/L						0.00063	0.00040	7607466
Dissolved Cobalt (Co)	ug/L	<0.40	7607052	<0.40	0.40	7607052	0.60	0.40	7607052
Total Cobalt (Co)	mg/L	<0.00040	7607078	<0.00040	0.00040	7607820	0.00065	0.00040	7607820
Dissolved Copper (Cu)	mg/L						0.00065	0.00050	7607466
Dissolved Copper (Cu)	ug/L	<0.50	7607052	<0.50	0.50	7607052	<0.50	0.50	7607052
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QTJ079		QTJ080			QTJ081		
Sampling Date		2021/09/22 12:38		2021/09/22 17:30			2021/09/22 11:31		
COC Number		839705-01-01		839705-01-01			839705-01-01		
	UNITS	SW-11-21	QC Batch	SW-12-21	RDL	QC Batch	SW-13-21	RDL	QC Batch
Total Copper (Cu)	mg/L	0.00053	7607078	<0.00050	0.00050	7607820	0.00054	0.00050	7607820
Dissolved Iron (Fe)	mg/L						1.55	0.050	7607466
Dissolved Iron (Fe)	ug/L	1100	7607052	430	50	7607052	1500	50	7607052
Total Iron (Fe)	mg/L	1.09	7607078	0.576	0.050	7607820	1.64	0.050	7607820
Dissolved Lead (Pb)	mg/L						0.00133	0.00050	7607466
Dissolved Lead (Pb)	ug/L	<0.50	7607052	0.54	0.50	7607052	1.4	0.50	7607052
Total Lead (Pb)	mg/L	<0.00050	7607078	0.00056	0.00050	7607820	0.00134	0.00050	7607820
Dissolved Magnesium (Mg)	mg/L						0.82	0.10	7607466
Dissolved Magnesium (Mg)	ug/L	800	7607052	420	100	7607052	810	100	7607052
Total Magnesium (Mg)	mg/L	0.76	7607078	0.42	0.10	7607820	0.85	0.10	7607820
Dissolved Manganese (Mn)	mg/L						0.0521	0.0020	7607466
Dissolved Manganese (Mn)	ug/L	100	7607052	14	2.0	7607052	51	2.0	7607052
Total Manganese (Mn)	mg/L	0.0988	7607078	0.0143	0.0020	7607820	0.0523	0.0020	7607820
Dissolved Molybdenum (Mo)	mg/L						<0.0020	0.0020	7607466
Dissolved Molybdenum (Mo)	ug/L	<2.0	7607052	<2.0	2.0	7607052	<2.0	2.0	7607052
Total Molybdenum (Mo)	mg/L	<0.0020	7607078	<0.0020	0.0020	7607820	<0.0020	0.0020	7607820
Dissolved Nickel (Ni)	mg/L						<0.0020	0.0020	7607466
Dissolved Nickel (Ni)	ug/L	<2.0	7607052	<2.0	2.0	7607052	<2.0	2.0	7607052
Total Nickel (Ni)	mg/L	<0.0020	7607078	<0.0020	0.0020	7607820	<0.0020	0.0020	7607820
Dissolved Phosphorus (P)	mg/L						<0.10	0.10	7607466
Dissolved Phosphorus (P)	ug/L	<100	7607052	<100	100	7607052	<100	100	7607052
Total Phosphorus (P)	mg/L	<0.10	7607078	<0.10	0.10	7607820	<0.10	0.10	7607820
Dissolved Potassium (K)	mg/L						0.28	0.10	7607466
Dissolved Potassium (K)	ug/L	550	7607052	300	100	7607052	250	100	7607052
Total Potassium (K)	mg/L	0.54	7607078	0.27	0.10	7607820	0.25	0.10	7607820
Dissolved Selenium (Se)	mg/L						<0.00050	0.00050	7607466
Dissolved Selenium (Se)	ug/L	<0.50	7607052	<0.50	0.50	7607052	<0.50	0.50	7607052
Total Selenium (Se)	mg/L	<0.00050	7607078	<0.00050	0.00050	7607820	<0.00050	0.00050	7607820
Dissolved Silver (Ag)	mg/L						<0.00010	0.00010	7607466
Dissolved Silver (Ag)	ug/L	<0.10	7607052	<0.10	0.10	7607052	<0.10	0.10	7607052
Total Silver (Ag)	mg/L	<0.00010	7607078	<0.00010	0.00010	7607820	<0.00010	0.00010	7607820
Dissolved Sodium (Na)	mg/L						5.10	0.10	7607466
Dissolved Sodium (Na)	ug/L	5200	7607052	3800	100	7607052	4900	100	7607052
Total Sodium (Na)	mg/L	5.08	7607078	3.71	0.10	7607820	5.22	0.10	7607820
Dissolved Strontium (Sr)	mg/L						0.0118	0.0020	7607466
Dissolved Strontium (Sr)	ug/L	13	7607052	6.3	2.0	7607052	11	2.0	7607052
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BV Labs Job #: C1R8048
Report Date: 2021/10/14

Anaconda Mining Inc
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QTJ079		QTJ080			QTJ081		
Sampling Date		2021/09/22 12:38		2021/09/22 17:30			2021/09/22 11:31		
COC Number		839705-01-01		839705-01-01			839705-01-01		
	UNITS	SW-11-21	QC Batch	SW-12-21	RDL	QC Batch	SW-13-21	RDL	QC Batch
Total Strontium (Sr)	mg/L	0.0127	7607078	0.0063	0.0020	7607820	0.0115	0.0020	7607820
Dissolved Thallium (Tl)	mg/L						<0.00010	0.00010	7607466
Dissolved Thallium (Tl)	ug/L	<0.10	7607052	<0.10	0.10	7607052	<0.10	0.10	7607052
Total Thallium (Tl)	mg/L	<0.00010	7607078	<0.00010	0.00010	7607820	<0.00010	0.00010	7607820
Dissolved Tin (Sn)	mg/L						<0.0020	0.0020	7607466
Dissolved Tin (Sn)	ug/L	<2.0	7607052	<2.0	2.0	7607052	<2.0	2.0	7607052
Total Tin (Sn)	mg/L	<0.0020	7607078	<0.0020	0.0020	7607820	<0.0020	0.0020	7607820
Dissolved Titanium (Ti)	mg/L						0.0095	0.0020	7607466
Dissolved Titanium (Ti)	ug/L	4.9	7607052	3.7	2.0	7607052	9.1	2.0	7607052
Total Titanium (Ti)	mg/L	0.0060	7607078	0.0043	0.0020	7607820	0.0109	0.0020	7607820
Dissolved Uranium (U)	mg/L						<0.00010	0.00010	7607466
Dissolved Uranium (U)	ug/L	<0.10	7607052	<0.10	0.10	7607052	<0.10	0.10	7607052
Total Uranium (U)	mg/L	<0.00010	7607078	<0.00010	0.00010	7607820	<0.00010	0.00010	7607820
Dissolved Vanadium (V)	mg/L						<0.0020	0.0020	7607466
Dissolved Vanadium (V)	ug/L	<2.0	7607052	<2.0	2.0	7607052	<2.0	2.0	7607052
Total Vanadium (V)	mg/L	<0.0020	7607078	<0.0020	0.0020	7607820	<0.0020	0.0020	7607820
Dissolved Zinc (Zn)	mg/L						<0.0050	0.0050	7607466
Dissolved Zinc (Zn)	ug/L	6.8	7607052	5.0	5.0	7607052	5.1	5.0	7607052
Total Zinc (Zn)	mg/L	<0.0050	7607078	<0.0050	0.0050	7607820	<0.0050	0.0050	7607820
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QTJ082			QTJ083	QTJ084	QTJ085		
Sampling Date		2021/09/22 12:45			2021/09/22 10:11	2021/09/22 13:55	2021/09/22 15:05		
COC Number		839705-01-01			839705-01-01	839705-01-01	839705-01-01		
	UNITS	SW-14-21	RDL	QC Batch	SW-15-21	SW-16-21	SW-17-21	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L				80	640	780	5.0	7607052
Total Aluminum (Al)	mg/L	0.481	0.0050	7607078	0.0939	0.634	0.821	0.0050	7607820
Dissolved Antimony (Sb)	ug/L				<1.0	<1.0	<1.0	1.0	7607052
Total Antimony (Sb)	mg/L	<0.0010	0.0010	7607078	<0.0010	<0.0010	<0.0010	0.0010	7607820
Dissolved Arsenic (As)	ug/L				<1.0	<1.0	<1.0	1.0	7607052
Total Arsenic (As)	mg/L	0.0021	0.0010	7607078	<0.0010	<0.0010	<0.0010	0.0010	7607820
Dissolved Barium (Ba)	ug/L				1.8	4.8	4.9	1.0	7607052
Total Barium (Ba)	mg/L	0.0036	0.0010	7607078	0.0018	0.0045	0.0050	0.0010	7607820
Dissolved Beryllium (Be)	ug/L				<0.10	<0.10	<0.10	0.10	7607052
Total Beryllium (Be)	mg/L	<0.00010	0.00010	7607078	<0.00010	<0.00010	<0.00010	0.00010	7607820
Dissolved Bismuth (Bi)	ug/L				<2.0	<2.0	<2.0	2.0	7607052
Total Bismuth (Bi)	mg/L	<0.0020	0.0020	7607078	<0.0020	<0.0020	<0.0020	0.0020	7607820
Dissolved Boron (B)	ug/L				<50	<50	<50	50	7607052
Total Boron (B)	mg/L	<0.050	0.050	7607078	<0.050	<0.050	<0.050	0.050	7607820
Dissolved Cadmium (Cd)	ug/L				0.013	0.026	0.027	0.010	7607052
Total Cadmium (Cd)	mg/L	0.000017	0.000010	7607078	<0.000010	0.000022	0.000026	0.000010	7607820
Dissolved Calcium (Ca)	ug/L				420	1100	1200	100	7607052
Total Calcium (Ca)	mg/L	0.91	0.10	7607078	0.40	0.95	1.15	0.10	7607820
Dissolved Chromium (Cr)	ug/L				<1.0	<1.0	<1.0	1.0	7607052
Total Chromium (Cr)	mg/L	<0.0010	0.0010	7607078	<0.0010	<0.0010	<0.0010	0.0010	7607820
Dissolved Cobalt (Co)	ug/L				<0.40	<0.40	<0.40	0.40	7607052
Total Cobalt (Co)	mg/L	<0.00040	0.00040	7607078	<0.00040	<0.00040	<0.00040	0.00040	7607820
Dissolved Copper (Cu)	ug/L				<0.50	<0.50	<0.50	0.50	7607052
Total Copper (Cu)	mg/L	0.00053	0.00050	7607078	<0.00050	<0.00050	<0.00050	0.00050	7607820
Dissolved Iron (Fe)	ug/L				52	830	1200	50	7607052
Total Iron (Fe)	mg/L	0.940	0.050	7607078	0.110	0.844	1.27	0.050	7607820
Dissolved Lead (Pb)	ug/L				<0.50	1.0	1.4	0.50	7607052
Total Lead (Pb)	mg/L	0.00102	0.00050	7607078	<0.00050	0.00096	0.00142	0.00050	7607820
Dissolved Magnesium (Mg)	ug/L				430	770	790	100	7607052
Total Magnesium (Mg)	mg/L	0.62	0.10	7607078	0.40	0.79	0.86	0.10	7607820
Dissolved Manganese (Mn)	ug/L				18	15	19	2.0	7607052
Total Manganese (Mn)	mg/L	0.0253	0.0020	7607078	0.0225	0.0144	0.0197	0.0020	7607820
Dissolved Molybdenum (Mo)	ug/L				<2.0	<2.0	<2.0	2.0	7607052
Total Molybdenum (Mo)	mg/L	<0.0020	0.0020	7607078	<0.0020	<0.0020	<0.0020	0.0020	7607820
Dissolved Nickel (Ni)	ug/L				<2.0	<2.0	<2.0	2.0	7607052
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BV Labs Job #: C1R8048
Report Date: 2021/10/14

Anaconda Mining Inc
Sampler Initials: DB

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QTJ082			QTJ083	QTJ084	QTJ085		
Sampling Date		2021/09/22 12:45			2021/09/22 10:11	2021/09/22 13:55	2021/09/22 15:05		
COC Number		839705-01-01			839705-01-01	839705-01-01	839705-01-01		
	UNITS	SW-14-21	RDL	QC Batch	SW-15-21	SW-16-21	SW-17-21	RDL	QC Batch
Total Nickel (Ni)	mg/L	<0.0020	0.0020	7607078	<0.0020	<0.0020	<0.0020	0.0020	7607820
Dissolved Phosphorus (P)	ug/L				<100	<100	<100	100	7607052
Total Phosphorus (P)	mg/L	<0.10	0.10	7607078	<0.10	<0.10	<0.10	0.10	7607820
Dissolved Potassium (K)	ug/L				310	230	300	100	7607052
Total Potassium (K)	mg/L	0.23	0.10	7607078	0.30	0.23	0.31	0.10	7607820
Dissolved Selenium (Se)	ug/L				<0.50	<0.50	<0.50	0.50	7607052
Total Selenium (Se)	mg/L	<0.00050	0.00050	7607078	<0.00050	<0.00050	<0.00050	0.00050	7607820
Dissolved Silver (Ag)	ug/L				<0.10	<0.10	<0.10	0.10	7607052
Total Silver (Ag)	mg/L	<0.00010	0.00010	7607078	<0.00010	<0.00010	<0.00010	0.00010	7607820
Dissolved Sodium (Na)	ug/L				3600	4700	4900	100	7607052
Total Sodium (Na)	mg/L	4.79	0.10	7607078	3.30	4.67	5.34	0.10	7607820
Dissolved Strontium (Sr)	ug/L				5.1	12	13	2.0	7607052
Total Strontium (Sr)	mg/L	0.0097	0.0020	7607078	0.0048	0.0117	0.0130	0.0020	7607820
Dissolved Thallium (Tl)	ug/L				<0.10	<0.10	<0.10	0.10	7607052
Total Thallium (Tl)	mg/L	<0.00010	0.00010	7607078	<0.00010	<0.00010	<0.00010	0.00010	7607820
Dissolved Tin (Sn)	ug/L				<2.0	<2.0	<2.0	2.0	7607052
Total Tin (Sn)	mg/L	<0.0020	0.0020	7607078	<0.0020	<0.0020	<0.0020	0.0020	7607820
Dissolved Titanium (Ti)	ug/L				<2.0	7.0	8.5	2.0	7607052
Total Titanium (Ti)	mg/L	0.0066	0.0020	7607078	<0.0020	0.0080	0.0101	0.0020	7607820
Dissolved Uranium (U)	ug/L				<0.10	<0.10	<0.10	0.10	7607052
Total Uranium (U)	mg/L	<0.00010	0.00010	7607078	<0.00010	<0.00010	<0.00010	0.00010	7607820
Dissolved Vanadium (V)	ug/L				<2.0	<2.0	<2.0	2.0	7607052
Total Vanadium (V)	mg/L	<0.0020	0.0020	7607078	<0.0020	<0.0020	<0.0020	0.0020	7607820
Dissolved Zinc (Zn)	ug/L				<5.0	6.0	6.7	5.0	7607052
Total Zinc (Zn)	mg/L	<0.0050	0.0050	7607078	<0.0050	<0.0050	<0.0050	0.0050	7607820
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QTJ086	QTJ087		QTJ088		QTJ102		
Sampling Date		2021/09/22 13:41	2021/09/22 13:58		2021/09/22 16:34		2021/09/22 12:06		
COC Number		839705-01-01	839705-01-01		839705-01-01		839705-02-01		
	UNITS	SW-18-21	SW-19-21	QC Batch	SW-20-21	QC Batch	SWDUPA	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	650	810	7607054	860	7607054	79	5.0	7607054
Total Aluminum (Al)	mg/L	1.89	0.835	7607820	0.828	7607813	0.0933	0.0050	7607820
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	7607054	<1.0	7607054	<1.0	1.0	7607054
Total Antimony (Sb)	mg/L	<0.0010	<0.0010	7607820	<0.0010	7607813	<0.0010	0.0010	7607820
Dissolved Arsenic (As)	ug/L	2.4	4.0	7607054	12	7607054	<1.0	1.0	7607054
Total Arsenic (As)	mg/L	0.0143	0.0040	7607820	0.0117	7607813	<0.0010	0.0010	7607820
Dissolved Barium (Ba)	ug/L	4.6	3.3	7607054	4.5	7607054	1.9	1.0	7607054
Total Barium (Ba)	mg/L	0.0112	0.0035	7607820	0.0043	7607813	0.0018	0.0010	7607820
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	7607054	<0.10	7607054	<0.10	0.10	7607054
Total Beryllium (Be)	mg/L	<0.00010	<0.00010	7607820	<0.00010	7607813	<0.00010	0.00010	7607820
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	7607054	<2.0	7607054	<2.0	2.0	7607054
Total Bismuth (Bi)	mg/L	<0.0020	<0.0020	7607820	<0.0020	7607813	<0.0020	0.0020	7607820
Dissolved Boron (B)	ug/L	<50	<50	7607054	<50	7607054	<50	50	7607054
Total Boron (B)	mg/L	<0.050	<0.050	7607820	<0.050	7607813	<0.050	0.050	7607820
Dissolved Cadmium (Cd)	ug/L	0.014	0.015	7607054	0.029	7607054	<0.010	0.010	7607054
Total Cadmium (Cd)	mg/L	0.000023	0.000014	7607820	0.000023	7607813	0.000012	0.000010	7607820
Dissolved Calcium (Ca)	ug/L	1100	1100	7607054	900	7607054	430	100	7607054
Total Calcium (Ca)	mg/L	1.24	1.02	7607820	0.89	7607813	0.40	0.10	7607820
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	7607054	<1.0	7607054	<1.0	1.0	7607054
Total Chromium (Cr)	mg/L	0.0023	<0.0010	7607820	<0.0010	7607813	<0.0010	0.0010	7607820
Dissolved Cobalt (Co)	ug/L	0.80	0.52	7607054	0.59	7607054	<0.40	0.40	7607054
Total Cobalt (Co)	mg/L	0.00138	0.00051	7607820	0.00059	7607813	<0.00040	0.00040	7607820
Dissolved Copper (Cu)	ug/L	<0.50	<0.50	7607054	0.54	7607054	<0.50	0.50	7607054
Total Copper (Cu)	mg/L	0.00167	<0.00050	7607820	0.00054	7607813	<0.00050	0.00050	7607820
Dissolved Iron (Fe)	ug/L	2300	2000	7607054	1400	7607054	53	50	7607054
Total Iron (Fe)	mg/L	9.35	2.05	7607820	1.42	7607813	0.115	0.050	7607820
Dissolved Lead (Pb)	ug/L	1.1	2.3	7607054	1.2	7607054	<0.50	0.50	7607054
Total Lead (Pb)	mg/L	0.00417	0.00219	7607820	0.00113	7607813	<0.00050	0.00050	7607820
Dissolved Magnesium (Mg)	ug/L	860	690	7607054	790	7607054	420	100	7607054
Total Magnesium (Mg)	mg/L	1.29	0.71	7607820	0.81	7607813	0.42	0.10	7607820
Dissolved Manganese (Mn)	ug/L	460	41	7607054	53	7607054	19	2.0	7607054
Total Manganese (Mn)	mg/L	0.561	0.0469	7607820	0.0517	7607813	0.0231	0.0020	7607820
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	7607054	<2.0	7607054	<2.0	2.0	7607054
Total Molybdenum (Mo)	mg/L	<0.0020	<0.0020	7607820	<0.0020	7607813	<0.0020	0.0020	7607820
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	7607054	<2.0	7607054	<2.0	2.0	7607054
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QTJ086	QTJ087		QTJ088		QTJ102		
Sampling Date		2021/09/22 13:41	2021/09/22 13:58		2021/09/22 16:34		2021/09/22 12:06		
COC Number		839705-01-01	839705-01-01		839705-01-01		839705-02-01		
	UNITS	SW-18-21	SW-19-21	QC Batch	SW-20-21	QC Batch	SWDUPA	RDL	QC Batch
Total Nickel (Ni)	mg/L	0.0020	<0.0020	7607820	<0.0020	7607813	<0.0020	0.0020	7607820
Dissolved Phosphorus (P)	ug/L	<100	<100	7607054	<100	7607054	<100	100	7607054
Total Phosphorus (P)	mg/L	0.17	<0.10	7607820	<0.10	7607813	<0.10	0.10	7607820
Dissolved Potassium (K)	ug/L	280	250	7607054	370	7607054	320	100	7607054
Total Potassium (K)	mg/L	0.48	0.25	7607820	0.35	7607813	0.30	0.10	7607820
Dissolved Selenium (Se)	ug/L	<0.50	<0.50	7607054	<0.50	7607054	<0.50	0.50	7607054
Total Selenium (Se)	mg/L	<0.00050	<0.00050	7607820	<0.00050	7607813	<0.00050	0.00050	7607820
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	7607054	<0.10	7607054	<0.10	0.10	7607054
Total Silver (Ag)	mg/L	<0.00010	<0.00010	7607820	<0.00010	7607813	<0.00010	0.00010	7607820
Dissolved Sodium (Na)	ug/L	5000	5200	7607054	4900	7607054	3600	100	7607054
Total Sodium (Na)	mg/L	5.31	5.29	7607820	4.99	7607813	3.40	0.10	7607820
Dissolved Strontium (Sr)	ug/L	9.4	8.1	7607054	11	7607054	4.9	2.0	7607054
Total Strontium (Sr)	mg/L	0.0116	0.0083	7607820	0.0097	7607813	0.0053	0.0020	7607820
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	7607054	<0.10	7607054	<0.10	0.10	7607054
Total Thallium (Tl)	mg/L	<0.00010	<0.00010	7607820	<0.00010	7607813	<0.00010	0.00010	7607820
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	7607054	<2.0	7607054	<2.0	2.0	7607054
Total Tin (Sn)	mg/L	<0.0020	<0.0020	7607820	<0.0020	7607813	<0.0020	0.0020	7607820
Dissolved Titanium (Ti)	ug/L	8.5	7.6	7607054	10	7607054	<2.0	2.0	7607054
Total Titanium (Ti)	mg/L	0.0813	0.0086	7607820	0.0102	7607813	<0.0020	0.0020	7607820
Dissolved Uranium (U)	ug/L	<0.10	<0.10	7607054	<0.10	7607054	<0.10	0.10	7607054
Total Uranium (U)	mg/L	<0.00010	<0.00010	7607820	<0.00010	7607813	<0.00010	0.00010	7607820
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	7607054	<2.0	7607054	<2.0	2.0	7607054
Total Vanadium (V)	mg/L	0.0045	<0.0020	7607820	<0.0020	7607813	<0.0020	0.0020	7607820
Dissolved Zinc (Zn)	ug/L	7.6	6.6	7607054	9.4	7607054	<5.0	5.0	7607054
Total Zinc (Zn)	mg/L	0.0081	<0.0050	7607820	<0.0050	7607813	<0.0050	0.0050	7607820
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	5.7°C
Package 2	4.7°C

Sample QTJ079 [SW-11-21] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent. RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample QTJ080 [SW-12-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample QTJ081 [SW-13-21] : RCap Ion Balance acceptable. Low ionic strength sample.

Sample QTJ082 [SW-14-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample QTJ083 [SW-15-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample QTJ084 [SW-16-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample QTJ085 [SW-17-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample QTJ087 [SW-19-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample QTJ088 [SW-20-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Results relate only to the items tested.



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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7606944	SHW	Spiked Blank	Conductivity	2021/09/29		101	%	80 - 120
7606944	SHW	Method Blank	Conductivity	2021/09/29	1.0, RDL=1.0		uS/cm	
7606944	SHW	RPD	Conductivity	2021/09/29	0.71		%	10
7606946	SHW	Spiked Blank	pH	2021/09/29		100	%	97 - 103
7606946	SHW	RPD	pH	2021/09/29	0.94		%	N/A
7606952	SHW	Spiked Blank	Conductivity	2021/09/29		101	%	80 - 120
7606952	SHW	Method Blank	Conductivity	2021/09/29	1.1, RDL=1.0		uS/cm	
7606952	SHW	RPD [QTJ086-01]	Conductivity	2021/09/29	0.45		%	10
7606976	SHW	Spiked Blank	pH	2021/09/29		100	%	97 - 103
7606976	SHW	RPD [QTJ086-01]	pH	2021/09/29	12 (1)		%	N/A
7607052	MLB	Matrix Spike [QTJ083-08]	Dissolved Aluminum (Al)	2021/09/29		99	%	80 - 120
			Dissolved Antimony (Sb)	2021/09/29		101	%	80 - 120
			Dissolved Arsenic (As)	2021/09/29		94	%	80 - 120
			Dissolved Barium (Ba)	2021/09/29		96	%	80 - 120
			Dissolved Beryllium (Be)	2021/09/29		99	%	80 - 120
			Dissolved Bismuth (Bi)	2021/09/29		98	%	80 - 120
			Dissolved Boron (B)	2021/09/29		96	%	80 - 120
			Dissolved Cadmium (Cd)	2021/09/29		100	%	80 - 120
			Dissolved Calcium (Ca)	2021/09/29		104	%	80 - 120
			Dissolved Chromium (Cr)	2021/09/29		96	%	80 - 120
			Dissolved Cobalt (Co)	2021/09/29		97	%	80 - 120
			Dissolved Copper (Cu)	2021/09/29		99	%	80 - 120
			Dissolved Iron (Fe)	2021/09/29		99	%	80 - 120
			Dissolved Lead (Pb)	2021/09/29		99	%	80 - 120
			Dissolved Magnesium (Mg)	2021/09/29		101	%	80 - 120
			Dissolved Manganese (Mn)	2021/09/29		98	%	80 - 120
			Dissolved Molybdenum (Mo)	2021/09/29		102	%	80 - 120
			Dissolved Nickel (Ni)	2021/09/29		98	%	80 - 120
			Dissolved Phosphorus (P)	2021/09/29		105	%	80 - 120
			Dissolved Potassium (K)	2021/09/29		101	%	80 - 120
			Dissolved Selenium (Se)	2021/09/29		99	%	80 - 120
			Dissolved Silver (Ag)	2021/09/29		98	%	80 - 120
			Dissolved Sodium (Na)	2021/09/29		97	%	80 - 120
			Dissolved Strontium (Sr)	2021/09/29		98	%	80 - 120
			Dissolved Thallium (Tl)	2021/09/29		100	%	80 - 120
			Dissolved Tin (Sn)	2021/09/29		101	%	80 - 120
			Dissolved Titanium (Ti)	2021/09/29		98	%	80 - 120
			Dissolved Uranium (U)	2021/09/29		105	%	80 - 120
			Dissolved Vanadium (V)	2021/09/29		97	%	80 - 120
			Dissolved Zinc (Zn)	2021/09/29		100	%	80 - 120
7607052	MLB	Spiked Blank	Dissolved Aluminum (Al)	2021/09/29		110	%	80 - 120
			Dissolved Antimony (Sb)	2021/09/29		93	%	80 - 120
			Dissolved Arsenic (As)	2021/09/29		97	%	80 - 120
			Dissolved Barium (Ba)	2021/09/29		99	%	80 - 120
			Dissolved Beryllium (Be)	2021/09/29		103	%	80 - 120
			Dissolved Bismuth (Bi)	2021/09/29		90	%	80 - 120
			Dissolved Boron (B)	2021/09/29		90	%	80 - 120
			Dissolved Cadmium (Cd)	2021/09/29		102	%	80 - 120
			Dissolved Calcium (Ca)	2021/09/29		113	%	80 - 120
			Dissolved Chromium (Cr)	2021/09/29		100	%	80 - 120
			Dissolved Cobalt (Co)	2021/09/29		100	%	80 - 120
			Dissolved Copper (Cu)	2021/09/29		102	%	80 - 120
			Dissolved Iron (Fe)	2021/09/29		109	%	80 - 120



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QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Dissolved Lead (Pb)	2021/09/29		101	%	80 - 120
				Dissolved Magnesium (Mg)	2021/09/29		109	%	80 - 120
				Dissolved Manganese (Mn)	2021/09/29		103	%	80 - 120
				Dissolved Molybdenum (Mo)	2021/09/29		95	%	80 - 120
				Dissolved Nickel (Ni)	2021/09/29		102	%	80 - 120
				Dissolved Phosphorus (P)	2021/09/29		115	%	80 - 120
				Dissolved Potassium (K)	2021/09/29		108	%	80 - 120
				Dissolved Selenium (Se)	2021/09/29		102	%	80 - 120
				Dissolved Silver (Ag)	2021/09/29		99	%	80 - 120
				Dissolved Sodium (Na)	2021/09/29		107	%	80 - 120
				Dissolved Strontium (Sr)	2021/09/29		100	%	80 - 120
				Dissolved Thallium (Tl)	2021/09/29		92	%	80 - 120
				Dissolved Tin (Sn)	2021/09/29		90	%	80 - 120
				Dissolved Titanium (Ti)	2021/09/29		104	%	80 - 120
				Dissolved Uranium (U)	2021/09/29		103	%	80 - 120
				Dissolved Vanadium (V)	2021/09/29		101	%	80 - 120
				Dissolved Zinc (Zn)	2021/09/29		97	%	80 - 120
7607052	MLB		Method Blank	Dissolved Aluminum (Al)	2021/09/29	<5.0		ug/L	
				Dissolved Antimony (Sb)	2021/09/29	<1.0		ug/L	
				Dissolved Arsenic (As)	2021/09/29	<1.0		ug/L	
				Dissolved Barium (Ba)	2021/09/29	<1.0		ug/L	
				Dissolved Beryllium (Be)	2021/09/29	<0.10		ug/L	
				Dissolved Bismuth (Bi)	2021/09/29	<2.0		ug/L	
				Dissolved Boron (B)	2021/09/29	<50		ug/L	
				Dissolved Cadmium (Cd)	2021/09/29	<0.010		ug/L	
				Dissolved Calcium (Ca)	2021/09/29	<100		ug/L	
				Dissolved Chromium (Cr)	2021/09/29	<1.0		ug/L	
				Dissolved Cobalt (Co)	2021/09/29	<0.40		ug/L	
				Dissolved Copper (Cu)	2021/09/29	<0.50		ug/L	
				Dissolved Iron (Fe)	2021/09/29	<50		ug/L	
				Dissolved Lead (Pb)	2021/09/29	<0.50		ug/L	
				Dissolved Magnesium (Mg)	2021/09/29	<100		ug/L	
				Dissolved Manganese (Mn)	2021/09/29	<2.0		ug/L	
				Dissolved Molybdenum (Mo)	2021/09/29	<2.0		ug/L	
				Dissolved Nickel (Ni)	2021/09/29	<2.0		ug/L	
				Dissolved Phosphorus (P)	2021/09/29	<100		ug/L	
				Dissolved Potassium (K)	2021/09/29	<100		ug/L	
				Dissolved Selenium (Se)	2021/09/29	<0.50		ug/L	
				Dissolved Silver (Ag)	2021/09/29	<0.10		ug/L	
				Dissolved Sodium (Na)	2021/09/29	<100		ug/L	
				Dissolved Strontium (Sr)	2021/09/29	<2.0		ug/L	
				Dissolved Thallium (Tl)	2021/09/29	<0.10		ug/L	
				Dissolved Tin (Sn)	2021/09/29	<2.0		ug/L	
				Dissolved Titanium (Ti)	2021/09/29	<2.0		ug/L	
				Dissolved Uranium (U)	2021/09/29	<0.10		ug/L	
				Dissolved Vanadium (V)	2021/09/29	<2.0		ug/L	
				Dissolved Zinc (Zn)	2021/09/29	<5.0		ug/L	
7607052	MLB		RPD [QTJ083-08]	Dissolved Aluminum (Al)	2021/09/29	0.76		%	20
				Dissolved Antimony (Sb)	2021/09/29	NC		%	20
				Dissolved Arsenic (As)	2021/09/29	NC		%	20
				Dissolved Barium (Ba)	2021/09/29	4.7		%	20
				Dissolved Beryllium (Be)	2021/09/29	NC		%	20
				Dissolved Bismuth (Bi)	2021/09/29	NC		%	20
				Dissolved Boron (B)	2021/09/29	NC		%	20
				Dissolved Cadmium (Cd)	2021/09/29	1.6		%	20



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QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Dissolved Calcium (Ca)	2021/09/29	0.11		%	20
				Dissolved Chromium (Cr)	2021/09/29	NC		%	20
				Dissolved Cobalt (Co)	2021/09/29	NC		%	20
				Dissolved Copper (Cu)	2021/09/29	NC		%	20
				Dissolved Iron (Fe)	2021/09/29	1.3		%	20
				Dissolved Lead (Pb)	2021/09/29	NC		%	20
				Dissolved Magnesium (Mg)	2021/09/29	1.3		%	20
				Dissolved Manganese (Mn)	2021/09/29	4.0		%	20
				Dissolved Molybdenum (Mo)	2021/09/29	NC		%	20
				Dissolved Nickel (Ni)	2021/09/29	NC		%	20
				Dissolved Phosphorus (P)	2021/09/29	NC		%	20
				Dissolved Potassium (K)	2021/09/29	6.1		%	20
				Dissolved Selenium (Se)	2021/09/29	NC		%	20
				Dissolved Silver (Ag)	2021/09/29	NC		%	20
				Dissolved Sodium (Na)	2021/09/29	2.4		%	20
				Dissolved Strontium (Sr)	2021/09/29	4.2		%	20
				Dissolved Thallium (Tl)	2021/09/29	NC		%	20
				Dissolved Tin (Sn)	2021/09/29	NC		%	20
				Dissolved Titanium (Ti)	2021/09/29	NC		%	20
				Dissolved Uranium (U)	2021/09/29	NC		%	20
				Dissolved Vanadium (V)	2021/09/29	NC		%	20
				Dissolved Zinc (Zn)	2021/09/29	NC		%	20
7607054	MLB		Matrix Spike	Dissolved Aluminum (Al)	2021/09/29		105	%	80 - 120
				Dissolved Antimony (Sb)	2021/09/29		98	%	80 - 120
				Dissolved Arsenic (As)	2021/09/29		94	%	80 - 120
				Dissolved Barium (Ba)	2021/09/29		94	%	80 - 120
				Dissolved Beryllium (Be)	2021/09/29		98	%	80 - 120
				Dissolved Bismuth (Bi)	2021/09/29		95	%	80 - 120
				Dissolved Boron (B)	2021/09/29		94	%	80 - 120
				Dissolved Cadmium (Cd)	2021/09/29		100	%	80 - 120
				Dissolved Calcium (Ca)	2021/09/29		107	%	80 - 120
				Dissolved Chromium (Cr)	2021/09/29		97	%	80 - 120
				Dissolved Cobalt (Co)	2021/09/29		97	%	80 - 120
				Dissolved Copper (Cu)	2021/09/29		99	%	80 - 120
				Dissolved Iron (Fe)	2021/09/29		105	%	80 - 120
				Dissolved Lead (Pb)	2021/09/29		100	%	80 - 120
				Dissolved Magnesium (Mg)	2021/09/29		105	%	80 - 120
				Dissolved Manganese (Mn)	2021/09/29		101	%	80 - 120
				Dissolved Molybdenum (Mo)	2021/09/29		100	%	80 - 120
				Dissolved Nickel (Ni)	2021/09/29		98	%	80 - 120
				Dissolved Phosphorus (P)	2021/09/29		109	%	80 - 120
				Dissolved Potassium (K)	2021/09/29		105	%	80 - 120
				Dissolved Selenium (Se)	2021/09/29		100	%	80 - 120
				Dissolved Silver (Ag)	2021/09/29		97	%	80 - 120
				Dissolved Sodium (Na)	2021/09/29		100	%	80 - 120
				Dissolved Strontium (Sr)	2021/09/29		98	%	80 - 120
				Dissolved Thallium (Tl)	2021/09/29		98	%	80 - 120
				Dissolved Tin (Sn)	2021/09/29		98	%	80 - 120
				Dissolved Titanium (Ti)	2021/09/29		103	%	80 - 120
				Dissolved Uranium (U)	2021/09/29		104	%	80 - 120
				Dissolved Vanadium (V)	2021/09/29		98	%	80 - 120
				Dissolved Zinc (Zn)	2021/09/29		98	%	80 - 120
7607054	MLB		Spiked Blank	Dissolved Aluminum (Al)	2021/09/29		108	%	80 - 120
				Dissolved Antimony (Sb)	2021/09/29		99	%	80 - 120
				Dissolved Arsenic (As)	2021/09/29		98	%	80 - 120



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QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Dissolved Barium (Ba)	2021/09/29		100	%	80 - 120
				Dissolved Beryllium (Be)	2021/09/29		104	%	80 - 120
				Dissolved Bismuth (Bi)	2021/09/29		96	%	80 - 120
				Dissolved Boron (B)	2021/09/29		93	%	80 - 120
				Dissolved Cadmium (Cd)	2021/09/29		105	%	80 - 120
				Dissolved Calcium (Ca)	2021/09/29		111	%	80 - 120
				Dissolved Chromium (Cr)	2021/09/29		100	%	80 - 120
				Dissolved Cobalt (Co)	2021/09/29		101	%	80 - 120
				Dissolved Copper (Cu)	2021/09/29		102	%	80 - 120
				Dissolved Iron (Fe)	2021/09/29		106	%	80 - 120
				Dissolved Lead (Pb)	2021/09/29		104	%	80 - 120
				Dissolved Magnesium (Mg)	2021/09/29		107	%	80 - 120
				Dissolved Manganese (Mn)	2021/09/29		103	%	80 - 120
				Dissolved Molybdenum (Mo)	2021/09/29		98	%	80 - 120
				Dissolved Nickel (Ni)	2021/09/29		103	%	80 - 120
				Dissolved Phosphorus (P)	2021/09/29		112	%	80 - 120
				Dissolved Potassium (K)	2021/09/29		108	%	80 - 120
				Dissolved Selenium (Se)	2021/09/29		104	%	80 - 120
				Dissolved Silver (Ag)	2021/09/29		103	%	80 - 120
				Dissolved Sodium (Na)	2021/09/29		103	%	80 - 120
				Dissolved Strontium (Sr)	2021/09/29		104	%	80 - 120
				Dissolved Thallium (Tl)	2021/09/29		97	%	80 - 120
				Dissolved Tin (Sn)	2021/09/29		98	%	80 - 120
				Dissolved Titanium (Ti)	2021/09/29		103	%	80 - 120
				Dissolved Uranium (U)	2021/09/29		110	%	80 - 120
				Dissolved Vanadium (V)	2021/09/29		101	%	80 - 120
				Dissolved Zinc (Zn)	2021/09/29		99	%	80 - 120
7607054	MLB		Method Blank	Dissolved Aluminum (Al)	2021/09/29	<5.0		ug/L	
				Dissolved Antimony (Sb)	2021/09/29	<1.0		ug/L	
				Dissolved Arsenic (As)	2021/09/29	<1.0		ug/L	
				Dissolved Barium (Ba)	2021/09/29	<1.0		ug/L	
				Dissolved Beryllium (Be)	2021/09/29	<0.10		ug/L	
				Dissolved Bismuth (Bi)	2021/09/29	<2.0		ug/L	
				Dissolved Boron (B)	2021/09/29	<50		ug/L	
				Dissolved Cadmium (Cd)	2021/09/29	<0.010		ug/L	
				Dissolved Calcium (Ca)	2021/09/29	<100		ug/L	
				Dissolved Chromium (Cr)	2021/09/29	<1.0		ug/L	
				Dissolved Cobalt (Co)	2021/09/29	<0.40		ug/L	
				Dissolved Copper (Cu)	2021/09/29	<0.50		ug/L	
				Dissolved Iron (Fe)	2021/09/29	<50		ug/L	
				Dissolved Lead (Pb)	2021/09/29	<0.50		ug/L	
				Dissolved Magnesium (Mg)	2021/09/29	<100		ug/L	
				Dissolved Manganese (Mn)	2021/09/29	<2.0		ug/L	
				Dissolved Molybdenum (Mo)	2021/09/29	<2.0		ug/L	
				Dissolved Nickel (Ni)	2021/09/29	<2.0		ug/L	
				Dissolved Phosphorus (P)	2021/09/29	<100		ug/L	
				Dissolved Potassium (K)	2021/09/29	<100		ug/L	
				Dissolved Selenium (Se)	2021/09/29	<0.50		ug/L	
				Dissolved Silver (Ag)	2021/09/29	<0.10		ug/L	
				Dissolved Sodium (Na)	2021/09/29	<100		ug/L	
				Dissolved Strontium (Sr)	2021/09/29	<2.0		ug/L	
				Dissolved Thallium (Tl)	2021/09/29	<0.10		ug/L	
				Dissolved Tin (Sn)	2021/09/29	<2.0		ug/L	
				Dissolved Titanium (Ti)	2021/09/29	<2.0		ug/L	
				Dissolved Uranium (U)	2021/09/29	<0.10		ug/L	



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QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7607054	MLB	RPD		Dissolved Vanadium (V)	2021/09/29	<2.0		ug/L	
				Dissolved Zinc (Zn)	2021/09/29	<5.0		ug/L	
				Dissolved Aluminum (Al)	2021/09/29	NC		%	20
				Dissolved Antimony (Sb)	2021/09/29	NC		%	20
				Dissolved Arsenic (As)	2021/09/29	NC		%	20
				Dissolved Barium (Ba)	2021/09/29	0.86		%	20
				Dissolved Beryllium (Be)	2021/09/29	NC		%	20
				Dissolved Bismuth (Bi)	2021/09/29	NC		%	20
				Dissolved Boron (B)	2021/09/29	NC		%	20
				Dissolved Cadmium (Cd)	2021/09/29	9.2		%	20
				Dissolved Calcium (Ca)	2021/09/29	1.6		%	20
				Dissolved Chromium (Cr)	2021/09/29	9.1		%	20
				Dissolved Cobalt (Co)	2021/09/29	NC		%	20
				Dissolved Copper (Cu)	2021/09/29	8.8		%	20
				Dissolved Iron (Fe)	2021/09/29	NC		%	20
				Dissolved Lead (Pb)	2021/09/29	NC		%	20
				Dissolved Magnesium (Mg)	2021/09/29	1.8		%	20
				Dissolved Manganese (Mn)	2021/09/29	16		%	20
				Dissolved Molybdenum (Mo)	2021/09/29	NC		%	20
				Dissolved Nickel (Ni)	2021/09/29	NC		%	20
				Dissolved Phosphorus (P)	2021/09/29	NC		%	20
				Dissolved Potassium (K)	2021/09/29	0.11		%	20
				Dissolved Selenium (Se)	2021/09/29	NC		%	20
				Dissolved Silver (Ag)	2021/09/29	NC		%	20
				Dissolved Sodium (Na)	2021/09/29	2.1		%	20
				Dissolved Strontium (Sr)	2021/09/29	3.3		%	20
				Dissolved Thallium (Tl)	2021/09/29	NC		%	20
				Dissolved Tin (Sn)	2021/09/29	NC		%	20
				Dissolved Titanium (Ti)	2021/09/29	NC		%	20
				Dissolved Uranium (U)	2021/09/29	NC		%	20
				Dissolved Vanadium (V)	2021/09/29	NC		%	20
				Dissolved Zinc (Zn)	2021/09/29	0.070		%	20
7607078	LKE	Matrix Spike		Total Aluminum (Al)	2021/09/30		97	%	80 - 120
				Total Antimony (Sb)	2021/09/30		106	%	80 - 120
				Total Arsenic (As)	2021/09/30		92	%	80 - 120
				Total Barium (Ba)	2021/09/30		94	%	80 - 120
				Total Beryllium (Be)	2021/09/30		96	%	80 - 120
				Total Bismuth (Bi)	2021/09/30		96	%	80 - 120
				Total Boron (B)	2021/09/30		97	%	80 - 120
				Total Cadmium (Cd)	2021/09/30		96	%	80 - 120
				Total Calcium (Ca)	2021/09/30		102	%	80 - 120
				Total Chromium (Cr)	2021/09/30		94	%	80 - 120
				Total Cobalt (Co)	2021/09/30		95	%	80 - 120
				Total Copper (Cu)	2021/09/30		95	%	80 - 120
				Total Iron (Fe)	2021/09/30		99	%	80 - 120
				Total Lead (Pb)	2021/09/30		97	%	80 - 120
				Total Magnesium (Mg)	2021/09/30		101	%	80 - 120
				Total Manganese (Mn)	2021/09/30		97	%	80 - 120
				Total Molybdenum (Mo)	2021/09/30		104	%	80 - 120
				Total Nickel (Ni)	2021/09/30		95	%	80 - 120
				Total Phosphorus (P)	2021/09/30		101	%	80 - 120
				Total Potassium (K)	2021/09/30		100	%	80 - 120
				Total Selenium (Se)	2021/09/30		97	%	80 - 120
				Total Silver (Ag)	2021/09/30		98	%	80 - 120
				Total Sodium (Na)	2021/09/30		NC	%	80 - 120



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7607078	LKE	Spiked Blank	Total Strontium (Sr)	2021/09/30		98	%	80 - 120
			Total Thallium (Tl)	2021/09/30		98	%	80 - 120
			Total Tin (Sn)	2021/09/30		102	%	80 - 120
			Total Titanium (Ti)	2021/09/30		99	%	80 - 120
			Total Uranium (U)	2021/09/30		103	%	80 - 120
			Total Vanadium (V)	2021/09/30		96	%	80 - 120
			Total Zinc (Zn)	2021/09/30		95	%	80 - 120
			Total Aluminum (Al)	2021/09/29		100	%	80 - 120
			Total Antimony (Sb)	2021/09/29		106	%	80 - 120
			Total Arsenic (As)	2021/09/29		94	%	80 - 120
			Total Barium (Ba)	2021/09/29		94	%	80 - 120
			Total Beryllium (Be)	2021/09/29		97	%	80 - 120
			Total Bismuth (Bi)	2021/09/29		100	%	80 - 120
			Total Boron (B)	2021/09/29		95	%	80 - 120
			Total Cadmium (Cd)	2021/09/29		99	%	80 - 120
			Total Calcium (Ca)	2021/09/29		104	%	80 - 120
			Total Chromium (Cr)	2021/09/29		98	%	80 - 120
			Total Cobalt (Co)	2021/09/29		99	%	80 - 120
			Total Copper (Cu)	2021/09/29		100	%	80 - 120
			Total Iron (Fe)	2021/09/29		104	%	80 - 120
			Total Lead (Pb)	2021/09/29		100	%	80 - 120
			Total Magnesium (Mg)	2021/09/29		103	%	80 - 120
			Total Manganese (Mn)	2021/09/29		100	%	80 - 120
			Total Molybdenum (Mo)	2021/09/29		102	%	80 - 120
			Total Nickel (Ni)	2021/09/29		100	%	80 - 120
			Total Phosphorus (P)	2021/09/29		103	%	80 - 120
			Total Potassium (K)	2021/09/29		102	%	80 - 120
			Total Selenium (Se)	2021/09/29		100	%	80 - 120
			Total Silver (Ag)	2021/09/29		100	%	80 - 120
			Total Sodium (Na)	2021/09/29		99	%	80 - 120
			Total Strontium (Sr)	2021/09/29		99	%	80 - 120
			Total Thallium (Tl)	2021/09/29		101	%	80 - 120
			Total Tin (Sn)	2021/09/29		102	%	80 - 120
			Total Titanium (Ti)	2021/09/29		102	%	80 - 120
			Total Uranium (U)	2021/09/29		106	%	80 - 120
			Total Vanadium (V)	2021/09/29		99	%	80 - 120
			Total Zinc (Zn)	2021/09/29		98	%	80 - 120
7607078	LKE	Method Blank	Total Aluminum (Al)	2021/09/29	<0.0050		mg/L	
			Total Antimony (Sb)	2021/09/29	<0.0010		mg/L	
			Total Arsenic (As)	2021/09/29	<0.0010		mg/L	
			Total Barium (Ba)	2021/09/29	<0.0010		mg/L	
			Total Beryllium (Be)	2021/09/29	<0.00010		mg/L	
			Total Bismuth (Bi)	2021/09/29	<0.0020		mg/L	
			Total Boron (B)	2021/09/29	<0.050		mg/L	
			Total Cadmium (Cd)	2021/09/29	<0.000010		mg/L	
			Total Calcium (Ca)	2021/09/29	<0.10		mg/L	
			Total Chromium (Cr)	2021/09/29	<0.0010		mg/L	
			Total Cobalt (Co)	2021/09/29	<0.00040		mg/L	
			Total Copper (Cu)	2021/09/29	<0.00050		mg/L	
			Total Iron (Fe)	2021/09/29	<0.050		mg/L	
			Total Lead (Pb)	2021/09/29	<0.00050		mg/L	
			Total Magnesium (Mg)	2021/09/29	<0.10		mg/L	
			Total Manganese (Mn)	2021/09/29	<0.0020		mg/L	
			Total Molybdenum (Mo)	2021/09/29	<0.0020		mg/L	
			Total Nickel (Ni)	2021/09/29	<0.0020		mg/L	



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7607078	LKE	RPD	Total Phosphorus (P)	2021/09/29	<0.10		mg/L	
			Total Potassium (K)	2021/09/29	<0.10		mg/L	
			Total Selenium (Se)	2021/09/29	<0.00050		mg/L	
			Total Silver (Ag)	2021/09/29	<0.00010		mg/L	
			Total Sodium (Na)	2021/09/29	<0.10		mg/L	
			Total Strontium (Sr)	2021/09/29	<0.0020		mg/L	
			Total Thallium (Tl)	2021/09/29	<0.00010		mg/L	
			Total Tin (Sn)	2021/09/29	<0.0020		mg/L	
			Total Titanium (Ti)	2021/09/29	<0.0020		mg/L	
			Total Uranium (U)	2021/09/29	<0.00010		mg/L	
			Total Vanadium (V)	2021/09/29	<0.0020		mg/L	
			Total Zinc (Zn)	2021/09/29	<0.0050		mg/L	
			Total Aluminum (Al)	2021/09/30	3.9		%	20
			Total Antimony (Sb)	2021/09/30	NC		%	20
			Total Arsenic (As)	2021/09/30	1.3		%	20
			Total Barium (Ba)	2021/09/30	0.31		%	20
			Total Beryllium (Be)	2021/09/30	NC		%	20
			Total Bismuth (Bi)	2021/09/30	NC		%	20
			Total Boron (B)	2021/09/30	1.5		%	20
			Total Cadmium (Cd)	2021/09/30	NC		%	20
			Total Calcium (Ca)	2021/09/30	2.3		%	20
			Total Chromium (Cr)	2021/09/30	NC		%	20
			Total Cobalt (Co)	2021/09/30	NC		%	20
			Total Copper (Cu)	2021/09/30	4.1		%	20
			Total Iron (Fe)	2021/09/30	NC		%	20
			Total Lead (Pb)	2021/09/30	NC		%	20
			Total Magnesium (Mg)	2021/09/30	2.7		%	20
			Total Manganese (Mn)	2021/09/30	NC		%	20
			Total Molybdenum (Mo)	2021/09/30	1.1		%	20
			Total Nickel (Ni)	2021/09/30	NC		%	20
			Total Phosphorus (P)	2021/09/30	NC		%	20
			Total Potassium (K)	2021/09/30	2.4		%	20
			Total Selenium (Se)	2021/09/30	NC		%	20
			Total Silver (Ag)	2021/09/30	NC		%	20
			Total Sodium (Na)	2021/09/30	2.5		%	20
			Total Strontium (Sr)	2021/09/30	1.2		%	20
			Total Thallium (Tl)	2021/09/30	NC		%	20
			Total Tin (Sn)	2021/09/30	NC		%	20
			Total Titanium (Ti)	2021/09/30	NC		%	20
			Total Uranium (U)	2021/09/30	4.2		%	20
			Total Vanadium (V)	2021/09/30	NC		%	20
			Total Zinc (Zn)	2021/09/30	NC		%	20
7607142	SHW	QC Standard	Turbidity	2021/09/29		97	%	80 - 120
7607142	SHW	Spiked Blank	Turbidity	2021/09/29		103	%	80 - 120
7607142	SHW	Method Blank	Turbidity	2021/09/29	<0.10		NTU	
7607142	SHW	RPD	Turbidity	2021/09/29	2.9		%	20
7607466	MLB	Matrix Spike	Dissolved Aluminum (Al)	2021/09/29		98	%	80 - 120
			Dissolved Antimony (Sb)	2021/09/29		102	%	80 - 120
			Dissolved Arsenic (As)	2021/09/29		93	%	80 - 120
			Dissolved Barium (Ba)	2021/09/29		94	%	80 - 120
			Dissolved Beryllium (Be)	2021/09/29		98	%	80 - 120
			Dissolved Bismuth (Bi)	2021/09/29		89	%	80 - 120
			Dissolved Boron (B)	2021/09/29		NC	%	80 - 120
			Dissolved Cadmium (Cd)	2021/09/29		93	%	80 - 120
			Dissolved Calcium (Ca)	2021/09/29		NC	%	80 - 120



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QA/QC									
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits	
7607466	MLB	Spiked Blank	Dissolved Chromium (Cr)	2021/09/29		93	%	80 - 120	
			Dissolved Cobalt (Co)	2021/09/29		92	%	80 - 120	
			Dissolved Copper (Cu)	2021/09/29		90	%	80 - 120	
			Dissolved Iron (Fe)	2021/09/29		93	%	80 - 120	
			Dissolved Lead (Pb)	2021/09/29		91	%	80 - 120	
			Dissolved Magnesium (Mg)	2021/09/29		NC	%	80 - 120	
			Dissolved Manganese (Mn)	2021/09/29		94	%	80 - 120	
			Dissolved Molybdenum (Mo)	2021/09/29		104	%	80 - 120	
			Dissolved Nickel (Ni)	2021/09/29		81	%	80 - 120	
			Dissolved Phosphorus (P)	2021/09/29		106	%	80 - 120	
			Dissolved Potassium (K)	2021/09/29		NC	%	80 - 120	
			Dissolved Selenium (Se)	2021/09/29		96	%	80 - 120	
			Dissolved Silver (Ag)	2021/09/29		86	%	80 - 120	
			Dissolved Sodium (Na)	2021/09/29		NC	%	80 - 120	
			Dissolved Strontium (Sr)	2021/09/29		NC	%	80 - 120	
			Dissolved Thallium (Tl)	2021/09/29		94	%	80 - 120	
			Dissolved Tin (Sn)	2021/09/29		102	%	80 - 120	
			Dissolved Titanium (Ti)	2021/09/29		102	%	80 - 120	
			Dissolved Uranium (U)	2021/09/29		95	%	80 - 120	
			Dissolved Vanadium (V)	2021/09/29		98	%	80 - 120	
			Dissolved Zinc (Zn)	2021/09/29		85	%	80 - 120	
			Dissolved Aluminum (Al)	2021/09/29		101	%	80 - 120	
			Dissolved Antimony (Sb)	2021/09/29		101	%	80 - 120	
			Dissolved Arsenic (As)	2021/09/29		93	%	80 - 120	
			Dissolved Barium (Ba)	2021/09/29		95	%	80 - 120	
			Dissolved Beryllium (Be)	2021/09/29		95	%	80 - 120	
			Dissolved Bismuth (Bi)	2021/09/29		96	%	80 - 120	
			Dissolved Boron (B)	2021/09/29		94	%	80 - 120	
			Dissolved Cadmium (Cd)	2021/09/29		97	%	80 - 120	
			Dissolved Calcium (Ca)	2021/09/29		101	%	80 - 120	
			Dissolved Chromium (Cr)	2021/09/29		94	%	80 - 120	
			Dissolved Cobalt (Co)	2021/09/29		96	%	80 - 120	
			Dissolved Copper (Cu)	2021/09/29		96	%	80 - 120	
			Dissolved Iron (Fe)	2021/09/29		100	%	80 - 120	
			Dissolved Lead (Pb)	2021/09/29		97	%	80 - 120	
			Dissolved Magnesium (Mg)	2021/09/29		101	%	80 - 120	
			Dissolved Manganese (Mn)	2021/09/29		97	%	80 - 120	
			Dissolved Molybdenum (Mo)	2021/09/29		100	%	80 - 120	
			Dissolved Nickel (Ni)	2021/09/29		97	%	80 - 120	
			Dissolved Phosphorus (P)	2021/09/29		101	%	80 - 120	
			Dissolved Potassium (K)	2021/09/29		100	%	80 - 120	
			Dissolved Selenium (Se)	2021/09/29		100	%	80 - 120	
			Dissolved Silver (Ag)	2021/09/29		93	%	80 - 120	
			Dissolved Sodium (Na)	2021/09/29		97	%	80 - 120	
Dissolved Strontium (Sr)	2021/09/29		97	%	80 - 120				
Dissolved Thallium (Tl)	2021/09/29		98	%	80 - 120				
Dissolved Tin (Sn)	2021/09/29		100	%	80 - 120				
Dissolved Titanium (Ti)	2021/09/29		97	%	80 - 120				
Dissolved Uranium (U)	2021/09/29		100	%	80 - 120				
Dissolved Vanadium (V)	2021/09/29		97	%	80 - 120				
Dissolved Zinc (Zn)	2021/09/29		100	%	80 - 120				
7607466	MLB	Method Blank	Dissolved Aluminum (Al)	2021/09/29	<0.0050		mg/L		
			Dissolved Antimony (Sb)	2021/09/29	<0.0010		mg/L		
			Dissolved Arsenic (As)	2021/09/29	<0.0010		mg/L		
			Dissolved Barium (Ba)	2021/09/29	<0.0010		mg/L		



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QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Dissolved Beryllium (Be)	2021/09/29	<0.00010		mg/L	
				Dissolved Bismuth (Bi)	2021/09/29	<0.0020		mg/L	
				Dissolved Boron (B)	2021/09/29	<0.050		mg/L	
				Dissolved Cadmium (Cd)	2021/09/29	<0.000010		mg/L	
				Dissolved Calcium (Ca)	2021/09/29	<0.10		mg/L	
				Dissolved Chromium (Cr)	2021/09/29	<0.0010		mg/L	
				Dissolved Cobalt (Co)	2021/09/29	<0.00040		mg/L	
				Dissolved Copper (Cu)	2021/09/29	<0.00050		mg/L	
				Dissolved Iron (Fe)	2021/09/29	<0.050		mg/L	
				Dissolved Lead (Pb)	2021/09/29	<0.00050		mg/L	
				Dissolved Magnesium (Mg)	2021/09/29	<0.10		mg/L	
				Dissolved Manganese (Mn)	2021/09/29	<0.0020		mg/L	
				Dissolved Molybdenum (Mo)	2021/09/29	<0.0020		mg/L	
				Dissolved Nickel (Ni)	2021/09/29	<0.0020		mg/L	
				Dissolved Phosphorus (P)	2021/09/29	<0.10		mg/L	
				Dissolved Potassium (K)	2021/09/29	<0.10		mg/L	
				Dissolved Selenium (Se)	2021/09/29	<0.00050		mg/L	
				Dissolved Silver (Ag)	2021/09/29	<0.00010		mg/L	
				Dissolved Sodium (Na)	2021/09/29	<0.10		mg/L	
				Dissolved Strontium (Sr)	2021/09/29	<0.0020		mg/L	
				Dissolved Thallium (Tl)	2021/09/29	<0.00010		mg/L	
				Dissolved Tin (Sn)	2021/09/29	<0.0020		mg/L	
				Dissolved Titanium (Ti)	2021/09/29	<0.0020		mg/L	
				Dissolved Uranium (U)	2021/09/29	<0.00010		mg/L	
				Dissolved Vanadium (V)	2021/09/29	<0.0020		mg/L	
				Dissolved Zinc (Zn)	2021/09/29	<0.0050		mg/L	
7607466	MLB	RPD		Dissolved Calcium (Ca)	2021/09/29	0.37		%	20
				Dissolved Magnesium (Mg)	2021/09/29	0.76		%	20
				Dissolved Phosphorus (P)	2021/09/29	NC		%	20
				Dissolved Potassium (K)	2021/09/29	0.15		%	20
				Dissolved Sodium (Na)	2021/09/29	1.6		%	20
7607813	BAN	Matrix Spike		Total Aluminum (Al)	2021/09/30		102	%	80 - 120
				Total Antimony (Sb)	2021/09/30		108	%	80 - 120
				Total Arsenic (As)	2021/09/30		96	%	80 - 120
				Total Barium (Ba)	2021/09/30		99	%	80 - 120
				Total Beryllium (Be)	2021/09/30		96	%	80 - 120
				Total Bismuth (Bi)	2021/09/30		100	%	80 - 120
				Total Boron (B)	2021/09/30		97	%	80 - 120
				Total Cadmium (Cd)	2021/09/30		100	%	80 - 120
				Total Calcium (Ca)	2021/09/30		108	%	80 - 120
				Total Chromium (Cr)	2021/09/30		98	%	80 - 120
				Total Cobalt (Co)	2021/09/30		100	%	80 - 120
				Total Copper (Cu)	2021/09/30		102	%	80 - 120
				Total Iron (Fe)	2021/09/30		103	%	80 - 120
				Total Lead (Pb)	2021/09/30		99	%	80 - 120
				Total Magnesium (Mg)	2021/09/30		99	%	80 - 120
				Total Manganese (Mn)	2021/09/30		101	%	80 - 120
				Total Molybdenum (Mo)	2021/09/30		105	%	80 - 120
				Total Nickel (Ni)	2021/09/30		100	%	80 - 120
				Total Phosphorus (P)	2021/09/30		109	%	80 - 120
				Total Potassium (K)	2021/09/30		111	%	80 - 120
				Total Selenium (Se)	2021/09/30		102	%	80 - 120
				Total Silver (Ag)	2021/09/30		101	%	80 - 120
				Total Sodium (Na)	2021/09/30		95	%	80 - 120
				Total Strontium (Sr)	2021/09/30		102	%	80 - 120



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QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7607813	BAN	Spiked Blank	Total Thallium (Tl)	2021/09/30		101	%	80 - 120
			Total Tin (Sn)	2021/09/30		101	%	80 - 120
			Total Titanium (Ti)	2021/09/30		99	%	80 - 120
			Total Uranium (U)	2021/09/30		106	%	80 - 120
			Total Vanadium (V)	2021/09/30		101	%	80 - 120
			Total Zinc (Zn)	2021/09/30		101	%	80 - 120
			Total Aluminum (Al)	2021/10/01		100	%	80 - 120
			Total Antimony (Sb)	2021/10/01		103	%	80 - 120
			Total Arsenic (As)	2021/10/01		92	%	80 - 120
			Total Barium (Ba)	2021/10/01		95	%	80 - 120
			Total Beryllium (Be)	2021/10/01		96	%	80 - 120
			Total Bismuth (Bi)	2021/10/01		97	%	80 - 120
			Total Boron (B)	2021/10/01		95	%	80 - 120
			Total Cadmium (Cd)	2021/10/01		98	%	80 - 120
			Total Calcium (Ca)	2021/10/01		103	%	80 - 120
			Total Chromium (Cr)	2021/10/01		97	%	80 - 120
			Total Cobalt (Co)	2021/10/01		98	%	80 - 120
			Total Copper (Cu)	2021/10/01		99	%	80 - 120
			Total Iron (Fe)	2021/10/01		101	%	80 - 120
			Total Lead (Pb)	2021/10/01		96	%	80 - 120
			Total Magnesium (Mg)	2021/10/01		96	%	80 - 120
			Total Manganese (Mn)	2021/10/01		100	%	80 - 120
			Total Molybdenum (Mo)	2021/10/01		99	%	80 - 120
			Total Nickel (Ni)	2021/10/01		99	%	80 - 120
			Total Phosphorus (P)	2021/10/01		102	%	80 - 120
			Total Potassium (K)	2021/10/01		103	%	80 - 120
			Total Selenium (Se)	2021/10/01		99	%	80 - 120
			Total Silver (Ag)	2021/10/01		96	%	80 - 120
			Total Sodium (Na)	2021/10/01		93	%	80 - 120
			Total Strontium (Sr)	2021/10/01		99	%	80 - 120
			Total Thallium (Tl)	2021/10/01		98	%	80 - 120
			Total Tin (Sn)	2021/10/01		97	%	80 - 120
			Total Titanium (Ti)	2021/10/01		97	%	80 - 120
			Total Uranium (U)	2021/10/01		100	%	80 - 120
			Total Vanadium (V)	2021/10/01		98	%	80 - 120
			Total Zinc (Zn)	2021/10/01		99	%	80 - 120
7607813	BAN	Method Blank	Total Aluminum (Al)	2021/10/01	<0.0050		mg/L	
			Total Antimony (Sb)	2021/10/01	<0.0010		mg/L	
			Total Arsenic (As)	2021/10/01	<0.0010		mg/L	
			Total Barium (Ba)	2021/10/01	<0.0010		mg/L	
			Total Beryllium (Be)	2021/10/01	<0.00010		mg/L	
			Total Bismuth (Bi)	2021/10/01	<0.0020		mg/L	
			Total Boron (B)	2021/10/01	<0.050		mg/L	
			Total Cadmium (Cd)	2021/10/01	<0.000010		mg/L	
			Total Calcium (Ca)	2021/10/01	<0.10		mg/L	
			Total Chromium (Cr)	2021/10/01	<0.0010		mg/L	
			Total Cobalt (Co)	2021/10/01	<0.00040		mg/L	
			Total Copper (Cu)	2021/10/01	<0.00050		mg/L	
			Total Iron (Fe)	2021/10/01	<0.050		mg/L	
			Total Lead (Pb)	2021/10/01	<0.00050		mg/L	
			Total Magnesium (Mg)	2021/10/01	<0.10		mg/L	
			Total Manganese (Mn)	2021/10/01	<0.0020		mg/L	
			Total Molybdenum (Mo)	2021/10/01	<0.0020		mg/L	
			Total Nickel (Ni)	2021/10/01	<0.0020		mg/L	
			Total Phosphorus (P)	2021/10/01	<0.10		mg/L	



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			Total Potassium (K)	2021/10/01	<0.10		mg/L	
			Total Selenium (Se)	2021/10/01	<0.00050		mg/L	
			Total Silver (Ag)	2021/10/01	<0.00010		mg/L	
			Total Sodium (Na)	2021/10/01	<0.10		mg/L	
			Total Strontium (Sr)	2021/10/01	<0.0020		mg/L	
			Total Thallium (Tl)	2021/10/01	<0.00010		mg/L	
			Total Tin (Sn)	2021/10/01	<0.0020		mg/L	
			Total Titanium (Ti)	2021/10/01	<0.0020		mg/L	
			Total Uranium (U)	2021/10/01	<0.00010		mg/L	
			Total Vanadium (V)	2021/10/01	<0.0020		mg/L	
7607813	BAN	RPD	Total Zinc (Zn)	2021/10/01	<0.0050		mg/L	
			Total Arsenic (As)	2021/09/30	NC		%	20
7607820	MLB	Matrix Spike	Total Aluminum (Al)	2021/09/30		100	%	80 - 120
			Total Antimony (Sb)	2021/09/30		106	%	80 - 120
			Total Arsenic (As)	2021/09/30		94	%	80 - 120
			Total Barium (Ba)	2021/09/30		96	%	80 - 120
			Total Beryllium (Be)	2021/09/30		96	%	80 - 120
			Total Bismuth (Bi)	2021/09/30		98	%	80 - 120
			Total Boron (B)	2021/09/30		NC	%	80 - 120
			Total Cadmium (Cd)	2021/09/30		98	%	80 - 120
			Total Calcium (Ca)	2021/09/30		102	%	80 - 120
			Total Chromium (Cr)	2021/09/30		97	%	80 - 120
			Total Cobalt (Co)	2021/09/30		98	%	80 - 120
			Total Copper (Cu)	2021/09/30		99	%	80 - 120
			Total Iron (Fe)	2021/09/30		100	%	80 - 120
			Total Lead (Pb)	2021/09/30		97	%	80 - 120
			Total Magnesium (Mg)	2021/09/30		99	%	80 - 120
			Total Manganese (Mn)	2021/09/30		101	%	80 - 120
			Total Molybdenum (Mo)	2021/09/30		105	%	80 - 120
			Total Nickel (Ni)	2021/09/30		97	%	80 - 120
			Total Phosphorus (P)	2021/09/30		105	%	80 - 120
			Total Potassium (K)	2021/09/30		107	%	80 - 120
			Total Selenium (Se)	2021/09/30		99	%	80 - 120
			Total Silver (Ag)	2021/09/30		96	%	80 - 120
			Total Sodium (Na)	2021/09/30		NC	%	80 - 120
			Total Strontium (Sr)	2021/09/30		101	%	80 - 120
			Total Thallium (Tl)	2021/09/30		98	%	80 - 120
			Total Tin (Sn)	2021/09/30		100	%	80 - 120
			Total Titanium (Ti)	2021/09/30		96	%	80 - 120
			Total Uranium (U)	2021/09/30		104	%	80 - 120
			Total Vanadium (V)	2021/09/30		98	%	80 - 120
			Total Zinc (Zn)	2021/09/30		100	%	80 - 120
7607820	MLB	Spiked Blank	Total Aluminum (Al)	2021/10/01		100	%	80 - 120
			Total Antimony (Sb)	2021/10/01		104	%	80 - 120
			Total Arsenic (As)	2021/10/01		93	%	80 - 120
			Total Barium (Ba)	2021/10/01		94	%	80 - 120
			Total Beryllium (Be)	2021/10/01		96	%	80 - 120
			Total Bismuth (Bi)	2021/10/01		98	%	80 - 120
			Total Boron (B)	2021/10/01		96	%	80 - 120
			Total Cadmium (Cd)	2021/10/01		97	%	80 - 120
			Total Calcium (Ca)	2021/10/01		104	%	80 - 120
			Total Chromium (Cr)	2021/10/01		96	%	80 - 120
			Total Cobalt (Co)	2021/10/01		98	%	80 - 120
			Total Copper (Cu)	2021/10/01		100	%	80 - 120
			Total Iron (Fe)	2021/10/01		100	%	80 - 120



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				Total Lead (Pb)	2021/10/01		97	%	80 - 120
				Total Magnesium (Mg)	2021/10/01		99	%	80 - 120
				Total Manganese (Mn)	2021/10/01		99	%	80 - 120
				Total Molybdenum (Mo)	2021/10/01		101	%	80 - 120
				Total Nickel (Ni)	2021/10/01		99	%	80 - 120
				Total Phosphorus (P)	2021/10/01		105	%	80 - 120
				Total Potassium (K)	2021/10/01		106	%	80 - 120
				Total Selenium (Se)	2021/10/01		98	%	80 - 120
				Total Silver (Ag)	2021/10/01		97	%	80 - 120
				Total Sodium (Na)	2021/10/01		94	%	80 - 120
				Total Strontium (Sr)	2021/10/01		99	%	80 - 120
				Total Thallium (Tl)	2021/10/01		99	%	80 - 120
				Total Tin (Sn)	2021/10/01		98	%	80 - 120
				Total Titanium (Ti)	2021/10/01		98	%	80 - 120
				Total Uranium (U)	2021/10/01		101	%	80 - 120
				Total Vanadium (V)	2021/10/01		98	%	80 - 120
				Total Zinc (Zn)	2021/10/01		100	%	80 - 120
7607820	MLB	Method Blank		Total Aluminum (Al)	2021/10/01	<0.0050		mg/L	
				Total Antimony (Sb)	2021/10/01	<0.0010		mg/L	
				Total Arsenic (As)	2021/10/01	<0.0010		mg/L	
				Total Barium (Ba)	2021/10/01	<0.0010		mg/L	
				Total Beryllium (Be)	2021/10/01	<0.00010		mg/L	
				Total Bismuth (Bi)	2021/10/01	<0.0020		mg/L	
				Total Boron (B)	2021/10/01	<0.050		mg/L	
				Total Cadmium (Cd)	2021/10/01	<0.000010		mg/L	
				Total Calcium (Ca)	2021/10/01	<0.10		mg/L	
				Total Chromium (Cr)	2021/10/01	<0.0010		mg/L	
				Total Cobalt (Co)	2021/10/01	<0.00040		mg/L	
				Total Copper (Cu)	2021/10/01	<0.00050		mg/L	
				Total Iron (Fe)	2021/10/01	<0.050		mg/L	
				Total Lead (Pb)	2021/10/01	<0.00050		mg/L	
				Total Magnesium (Mg)	2021/10/01	<0.10		mg/L	
				Total Manganese (Mn)	2021/10/01	<0.0020		mg/L	
				Total Molybdenum (Mo)	2021/10/01	<0.0020		mg/L	
				Total Nickel (Ni)	2021/10/01	<0.0020		mg/L	
				Total Phosphorus (P)	2021/10/01	<0.10		mg/L	
				Total Potassium (K)	2021/10/01	<0.10		mg/L	
				Total Selenium (Se)	2021/10/01	<0.00050		mg/L	
				Total Silver (Ag)	2021/10/01	<0.00010		mg/L	
				Total Sodium (Na)	2021/10/01	<0.10		mg/L	
				Total Strontium (Sr)	2021/10/01	<0.0020		mg/L	
				Total Thallium (Tl)	2021/10/01	<0.00010		mg/L	
				Total Tin (Sn)	2021/10/01	<0.0020		mg/L	
				Total Titanium (Ti)	2021/10/01	<0.0020		mg/L	
				Total Uranium (U)	2021/10/01	<0.00010		mg/L	
				Total Vanadium (V)	2021/10/01	<0.0020		mg/L	
				Total Zinc (Zn)	2021/10/01	<0.0050		mg/L	
7607820	MLB	RPD		Total Aluminum (Al)	2021/09/30	NC		%	20
				Total Antimony (Sb)	2021/09/30	NC		%	20
				Total Arsenic (As)	2021/09/30	0.20		%	20
				Total Barium (Ba)	2021/09/30	0.19		%	20
				Total Beryllium (Be)	2021/09/30	NC		%	20
				Total Bismuth (Bi)	2021/09/30	NC		%	20
				Total Boron (B)	2021/09/30	4.0		%	20
				Total Cadmium (Cd)	2021/09/30	7.4		%	20



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			Total Calcium (Ca)	2021/09/30	1.6		%	20
			Total Chromium (Cr)	2021/09/30	NC		%	20
			Total Cobalt (Co)	2021/09/30	NC		%	20
			Total Copper (Cu)	2021/09/30	1.3		%	20
			Total Iron (Fe)	2021/09/30	NC		%	20
			Total Lead (Pb)	2021/09/30	NC		%	20
			Total Magnesium (Mg)	2021/09/30	0.038		%	20
			Total Manganese (Mn)	2021/09/30	NC		%	20
			Total Molybdenum (Mo)	2021/09/30	4.9		%	20
			Total Nickel (Ni)	2021/09/30	NC		%	20
			Total Phosphorus (P)	2021/09/30	NC		%	20
			Total Potassium (K)	2021/09/30	5.2		%	20
			Total Selenium (Se)	2021/09/30	NC		%	20
			Total Silver (Ag)	2021/09/30	NC		%	20
			Total Sodium (Na)	2021/09/30	0.083		%	20
			Total Strontium (Sr)	2021/09/30	0.77		%	20
			Total Thallium (Tl)	2021/09/30	NC		%	20
			Total Tin (Sn)	2021/09/30	NC		%	20
			Total Titanium (Ti)	2021/09/30	NC		%	20
			Total Uranium (U)	2021/09/30	6.5		%	20
			Total Vanadium (V)	2021/09/30	NC		%	20
			Total Zinc (Zn)	2021/09/30	NC		%	20
7610611	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2021/10/01		101	%	80 - 120
7610611	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2021/10/01		106	%	80 - 120
7610611	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2021/10/01	<0.050		mg/L	
7610611	MCN	RPD	Nitrogen (Ammonia Nitrogen)	2021/10/01	NC		%	20
7612225	MCN	Matrix Spike	Total Alkalinity (Total as CaCO3)	2021/10/04		NC	%	80 - 120
7612225	MCN	Spiked Blank	Total Alkalinity (Total as CaCO3)	2021/10/04		107	%	80 - 120
7612225	MCN	Method Blank	Total Alkalinity (Total as CaCO3)	2021/10/04	<5.0		mg/L	
7612225	MCN	RPD	Total Alkalinity (Total as CaCO3)	2021/10/04	1.3		%	20
7612230	MCN	Matrix Spike	Dissolved Chloride (Cl-)	2021/10/01		NC	%	80 - 120
7612230	MCN	Spiked Blank	Dissolved Chloride (Cl-)	2021/10/01		102	%	80 - 120
7612230	MCN	Method Blank	Dissolved Chloride (Cl-)	2021/10/01	<1.0		mg/L	
7612230	MCN	RPD	Dissolved Chloride (Cl-)	2021/10/01	0.44		%	20
7612231	MCN	Matrix Spike	Reactive Silica (SiO2)	2021/10/01		82	%	80 - 120
7612231	MCN	Spiked Blank	Reactive Silica (SiO2)	2021/10/01		96	%	80 - 120
7612231	MCN	Method Blank	Reactive Silica (SiO2)	2021/10/01	<0.50		mg/L	
7612231	MCN	RPD	Reactive Silica (SiO2)	2021/10/01	1.0		%	20
7612233	MCN	Spiked Blank	Colour	2021/10/04		102	%	80 - 120
7612233	MCN	Method Blank	Colour	2021/10/04	<5.0		TCU	
7612233	MCN	RPD	Colour	2021/10/04	2.7		%	20
7612235	MCN	Matrix Spike	Orthophosphate (P)	2021/10/04		82	%	80 - 120
7612235	MCN	Spiked Blank	Orthophosphate (P)	2021/10/04		97	%	80 - 120
7612235	MCN	Method Blank	Orthophosphate (P)	2021/10/04	<0.010		mg/L	
7612235	MCN	RPD	Orthophosphate (P)	2021/10/04	NC		%	20
7612236	MCN	Matrix Spike	Nitrate + Nitrite (N)	2021/10/04		82	%	80 - 120
7612236	MCN	Spiked Blank	Nitrate + Nitrite (N)	2021/10/04		100	%	80 - 120
7612236	MCN	Method Blank	Nitrate + Nitrite (N)	2021/10/04	<0.050		mg/L	
7612236	MCN	RPD	Nitrate + Nitrite (N)	2021/10/04	16		%	20
7612239	MCN	Matrix Spike	Nitrite (N)	2021/10/01		89	%	80 - 120
7612239	MCN	Spiked Blank	Nitrite (N)	2021/10/01		108	%	80 - 120
7612239	MCN	Method Blank	Nitrite (N)	2021/10/01	<0.010		mg/L	
7612239	MCN	RPD	Nitrite (N)	2021/10/01	NC		%	20
7612240	MCN	Matrix Spike	Dissolved Sulphate (SO4)	2021/10/01		109	%	80 - 120
7612240	MCN	Spiked Blank	Dissolved Sulphate (SO4)	2021/10/01		108	%	80 - 120



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7612240	MCN	Method Blank	Dissolved Sulphate (SO4)	2021/10/01	<2.0		mg/L	
7612240	MCN	RPD	Dissolved Sulphate (SO4)	2021/10/01	3.7		%	20
7612257	MCN	Matrix Spike	Total Alkalinity (Total as CaCO3)	2021/10/04		NC	%	80 - 120
7612257	MCN	Spiked Blank	Total Alkalinity (Total as CaCO3)	2021/10/04		95	%	80 - 120
7612257	MCN	Method Blank	Total Alkalinity (Total as CaCO3)	2021/10/04	<5.0		mg/L	
7612257	MCN	RPD	Total Alkalinity (Total as CaCO3)	2021/10/04	2.9		%	20
7612258	NGI	Matrix Spike	Dissolved Organic Carbon (C)	2021/10/02		105	%	85 - 115
7612258	NGI	Spiked Blank	Dissolved Organic Carbon (C)	2021/10/02		102	%	80 - 120
7612258	NGI	Method Blank	Dissolved Organic Carbon (C)	2021/10/02	<0.50		mg/L	
7612258	NGI	RPD	Dissolved Organic Carbon (C)	2021/10/02	1.0		%	15
7612265	MCN	Matrix Spike	Dissolved Chloride (Cl-)	2021/10/01		101	%	80 - 120
7612265	MCN	Spiked Blank	Dissolved Chloride (Cl-)	2021/10/01		101	%	80 - 120
7612265	MCN	Method Blank	Dissolved Chloride (Cl-)	2021/10/01	<1.0		mg/L	
7612265	MCN	RPD	Dissolved Chloride (Cl-)	2021/10/01	12		%	20
7612266	MCN	Matrix Spike	Dissolved Sulphate (SO4)	2021/10/01		106	%	80 - 120
7612266	MCN	Spiked Blank	Dissolved Sulphate (SO4)	2021/10/01		108	%	80 - 120
7612266	MCN	Method Blank	Dissolved Sulphate (SO4)	2021/10/01	<2.0		mg/L	
7612266	MCN	RPD	Dissolved Sulphate (SO4)	2021/10/01	NC		%	20
7612268	MCN	Matrix Spike	Reactive Silica (SiO2)	2021/10/01		90	%	80 - 120
7612268	MCN	Spiked Blank	Reactive Silica (SiO2)	2021/10/01		101	%	80 - 120
7612268	MCN	Method Blank	Reactive Silica (SiO2)	2021/10/01	<0.50		mg/L	
7612268	MCN	RPD	Reactive Silica (SiO2)	2021/10/01	0.48		%	20
7612281	MCN	Spiked Blank	Colour	2021/10/04		103	%	80 - 120
7612281	MCN	Method Blank	Colour	2021/10/04	<5.0		TCU	
7612281	MCN	RPD	Colour	2021/10/04	NC		%	20
7612282	MCN	Matrix Spike	Orthophosphate (P)	2021/10/04		96	%	80 - 120
7612282	MCN	Spiked Blank	Orthophosphate (P)	2021/10/04		103	%	80 - 120
7612282	MCN	Method Blank	Orthophosphate (P)	2021/10/04	<0.010		mg/L	
7612282	MCN	RPD	Orthophosphate (P)	2021/10/04	NC		%	20
7612284	MCN	Matrix Spike	Nitrate + Nitrite (N)	2021/10/04		NC	%	80 - 120
7612284	MCN	Spiked Blank	Nitrate + Nitrite (N)	2021/10/04		105	%	80 - 120
7612284	MCN	Method Blank	Nitrate + Nitrite (N)	2021/10/04	<0.050		mg/L	
7612284	MCN	RPD	Nitrate + Nitrite (N)	2021/10/04	2.0		%	20
7612285	MCN	Matrix Spike	Nitrite (N)	2021/10/01		90	%	80 - 120
7612285	MCN	Spiked Blank	Nitrite (N)	2021/10/01		96	%	80 - 120
7612285	MCN	Method Blank	Nitrite (N)	2021/10/01	<0.010		mg/L	
7612285	MCN	RPD	Nitrite (N)	2021/10/01	1.9		%	20
7612292	MCN	Matrix Spike	Total Alkalinity (Total as CaCO3)	2021/10/04		93	%	80 - 120
7612292	MCN	Spiked Blank	Total Alkalinity (Total as CaCO3)	2021/10/04		100	%	80 - 120
7612292	MCN	Method Blank	Total Alkalinity (Total as CaCO3)	2021/10/04	<5.0		mg/L	
7612292	MCN	RPD	Total Alkalinity (Total as CaCO3)	2021/10/04	1.1		%	20
7612297	MCN	Matrix Spike	Dissolved Chloride (Cl-)	2021/10/01		105	%	80 - 120
7612297	MCN	Spiked Blank	Dissolved Chloride (Cl-)	2021/10/01		99	%	80 - 120
7612297	MCN	Method Blank	Dissolved Chloride (Cl-)	2021/10/01	<1.0		mg/L	
7612297	MCN	RPD	Dissolved Chloride (Cl-)	2021/10/01	NC		%	20
7612298	MCN	Matrix Spike	Dissolved Sulphate (SO4)	2021/10/01		112	%	80 - 120
7612298	MCN	Spiked Blank	Dissolved Sulphate (SO4)	2021/10/01		109	%	80 - 120
7612298	MCN	Method Blank	Dissolved Sulphate (SO4)	2021/10/01	<2.0		mg/L	
7612298	MCN	RPD	Dissolved Sulphate (SO4)	2021/10/01	3.4		%	20
7612299	MCN	Matrix Spike	Reactive Silica (SiO2)	2021/10/01		72 (2)	%	80 - 120
7612299	MCN	Spiked Blank	Reactive Silica (SiO2)	2021/10/01		91	%	80 - 120
7612299	MCN	Method Blank	Reactive Silica (SiO2)	2021/10/01	<0.50		mg/L	
7612299	MCN	RPD	Reactive Silica (SiO2)	2021/10/01	0.73		%	20
7612300	MCN	Spiked Blank	Colour	2021/10/04		100	%	80 - 120
7612300	MCN	Method Blank	Colour	2021/10/04	<5.0		TCU	



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7612300	MCN	RPD	Colour	2021/10/04	6.2		%	20
7612301	MCN	Matrix Spike	Orthophosphate (P)	2021/10/04		98	%	80 - 120
7612301	MCN	Spiked Blank	Orthophosphate (P)	2021/10/04		94	%	80 - 120
7612301	MCN	Method Blank	Orthophosphate (P)	2021/10/04	<0.010		mg/L	
7612301	MCN	RPD	Orthophosphate (P)	2021/10/04	NC		%	20
7612302	MCN	Matrix Spike	Nitrate + Nitrite (N)	2021/10/04		96	%	80 - 120
7612302	MCN	Spiked Blank	Nitrate + Nitrite (N)	2021/10/04		100	%	80 - 120
7612302	MCN	Method Blank	Nitrate + Nitrite (N)	2021/10/04	<0.050		mg/L	
7612302	MCN	RPD	Nitrate + Nitrite (N)	2021/10/04	NC		%	20
7612303	MCN	Matrix Spike	Nitrite (N)	2021/10/01		102	%	80 - 120
7612303	MCN	Spiked Blank	Nitrite (N)	2021/10/01		106	%	80 - 120
7612303	MCN	Method Blank	Nitrite (N)	2021/10/01	<0.010		mg/L	
7612303	MCN	RPD	Nitrite (N)	2021/10/01	NC		%	20
7612325	NGI	Matrix Spike	Dissolved Organic Carbon (C)	2021/10/03		94	%	85 - 115
7612325	NGI	Spiked Blank	Dissolved Organic Carbon (C)	2021/10/03		100	%	80 - 120
7612325	NGI	Method Blank	Dissolved Organic Carbon (C)	2021/10/03	<0.50		mg/L	
7612325	NGI	RPD	Dissolved Organic Carbon (C)	2021/10/03	2.3		%	15
7612327	NHU	Matrix Spike	Total Mercury (Hg)	2021/10/04		95	%	80 - 120
7612327	NHU	Spiked Blank	Total Mercury (Hg)	2021/10/04		100	%	80 - 120
7612327	NHU	Method Blank	Total Mercury (Hg)	2021/10/04	<0.013		ug/L	
7612327	NHU	RPD	Total Mercury (Hg)	2021/10/04	NC		%	20
7612864	MCN	Matrix Spike [QTJ080-01]	Total Alkalinity (Total as CaCO3)	2021/10/04		88	%	80 - 120
7612864	MCN	Spiked Blank	Total Alkalinity (Total as CaCO3)	2021/10/04		100	%	80 - 120
7612864	MCN	Method Blank	Total Alkalinity (Total as CaCO3)	2021/10/04	<5.0		mg/L	
7612864	MCN	RPD [QTJ080-01]	Total Alkalinity (Total as CaCO3)	2021/10/04	NC		%	20
7612871	MCN	Matrix Spike [QTJ080-01]	Dissolved Chloride (Cl-)	2021/10/04		97	%	80 - 120
7612871	MCN	Spiked Blank	Dissolved Chloride (Cl-)	2021/10/04		101	%	80 - 120
7612871	MCN	Method Blank	Dissolved Chloride (Cl-)	2021/10/04	<1.0		mg/L	
7612871	MCN	RPD [QTJ080-01]	Dissolved Chloride (Cl-)	2021/10/03	3.0		%	20
7612872	MCN	Matrix Spike [QTJ080-01]	Dissolved Sulphate (SO4)	2021/10/04		118	%	80 - 120
7612872	MCN	Spiked Blank	Dissolved Sulphate (SO4)	2021/10/04		100	%	80 - 120
7612872	MCN	Method Blank	Dissolved Sulphate (SO4)	2021/10/03	<2.0		mg/L	
7612872	MCN	RPD [QTJ080-01]	Dissolved Sulphate (SO4)	2021/10/03	NC		%	20
7612874	MCN	Matrix Spike [QTJ080-01]	Reactive Silica (SiO2)	2021/10/04		89	%	80 - 120
7612874	MCN	Spiked Blank	Reactive Silica (SiO2)	2021/10/04		103	%	80 - 120
7612874	MCN	Method Blank	Reactive Silica (SiO2)	2021/10/04	<0.50		mg/L	
7612874	MCN	RPD [QTJ080-01]	Reactive Silica (SiO2)	2021/10/03	5.1		%	20
7612875	MCN	Spiked Blank	Colour	2021/10/04		98	%	80 - 120
7612875	MCN	Method Blank	Colour	2021/10/04	<5.0		TCU	
7612875	MCN	RPD [QTJ080-01]	Colour	2021/10/04	0.94		%	20
7612876	MCN	Matrix Spike [QTJ080-01]	Orthophosphate (P)	2021/10/04		97	%	80 - 120
7612876	MCN	Spiked Blank	Orthophosphate (P)	2021/10/04		94	%	80 - 120
7612876	MCN	Method Blank	Orthophosphate (P)	2021/10/04	<0.010		mg/L	
7612876	MCN	RPD [QTJ080-01]	Orthophosphate (P)	2021/10/04	NC		%	20
7612877	MCN	Matrix Spike [QTJ080-01]	Nitrate + Nitrite (N)	2021/10/04		102	%	80 - 120
7612877	MCN	Spiked Blank	Nitrate + Nitrite (N)	2021/10/04		105	%	80 - 120
7612877	MCN	Method Blank	Nitrate + Nitrite (N)	2021/10/04	<0.050		mg/L	
7612877	MCN	RPD [QTJ080-01]	Nitrate + Nitrite (N)	2021/10/04	NC		%	20
7612878	MCN	Matrix Spike [QTJ080-01]	Nitrite (N)	2021/10/04		98	%	80 - 120
7612878	MCN	Spiked Blank	Nitrite (N)	2021/10/04		107	%	80 - 120
7612878	MCN	Method Blank	Nitrite (N)	2021/10/03	<0.010		mg/L	
7612878	MCN	RPD [QTJ080-01]	Nitrite (N)	2021/10/03	NC		%	20
7612885	MCN	Matrix Spike	Dissolved Chloride (Cl-)	2021/10/04		NC	%	80 - 120
7612885	MCN	Spiked Blank	Dissolved Chloride (Cl-)	2021/10/04		96	%	80 - 120
7612885	MCN	Method Blank	Dissolved Chloride (Cl-)	2021/10/04	<1.0		mg/L	



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7612885	MCN	RPD		Dissolved Chloride (Cl-)	2021/10/04	0.89		%	20
7612891	MCN	Matrix Spike		Dissolved Sulphate (SO4)	2021/10/04		NC	%	80 - 120
7612891	MCN	Spiked Blank		Dissolved Sulphate (SO4)	2021/10/04		108	%	80 - 120
7612891	MCN	Method Blank		Dissolved Sulphate (SO4)	2021/10/03	<2.0		mg/L	
7612891	MCN	RPD		Dissolved Sulphate (SO4)	2021/10/03	1.3		%	20
7612892	MCN	Matrix Spike		Total Alkalinity (Total as CaCO3)	2021/10/05		NC	%	80 - 120
7612892	MCN	Spiked Blank		Total Alkalinity (Total as CaCO3)	2021/10/04		96	%	80 - 120
7612892	MCN	Method Blank		Total Alkalinity (Total as CaCO3)	2021/10/04	<5.0		mg/L	
7612892	MCN	RPD		Total Alkalinity (Total as CaCO3)	2021/10/04	4.5		%	20
7612893	MCN	Matrix Spike		Reactive Silica (SiO2)	2021/10/04		NC	%	80 - 120
7612893	MCN	Spiked Blank		Reactive Silica (SiO2)	2021/10/04		104	%	80 - 120
7612893	MCN	Method Blank		Reactive Silica (SiO2)	2021/10/04	<0.50		mg/L	
7612893	MCN	RPD		Reactive Silica (SiO2)	2021/10/03	0.49		%	20
7612894	MCN	Spiked Blank		Colour	2021/10/04		98	%	80 - 120
7612894	MCN	Method Blank		Colour	2021/10/04	<5.0		TCU	
7612894	MCN	RPD		Colour	2021/10/04	NC		%	20
7612895	MCN	Matrix Spike		Orthophosphate (P)	2021/10/04		89	%	80 - 120
7612895	MCN	Spiked Blank		Orthophosphate (P)	2021/10/04		97	%	80 - 120
7612895	MCN	Method Blank		Orthophosphate (P)	2021/10/04	<0.010		mg/L	
7612895	MCN	RPD		Orthophosphate (P)	2021/10/04	NC		%	20
7612896	MCN	Matrix Spike		Nitrate + Nitrite (N)	2021/10/04		75 (3)	%	80 - 120
7612896	MCN	Spiked Blank		Nitrate + Nitrite (N)	2021/10/04		103	%	80 - 120
7612896	MCN	Method Blank		Nitrate + Nitrite (N)	2021/10/04	<0.050		mg/L	
7612896	MCN	RPD		Nitrate + Nitrite (N)	2021/10/04	1.8		%	20
7612898	MCN	Matrix Spike		Nitrite (N)	2021/10/04		95	%	80 - 120
7612898	MCN	Spiked Blank		Nitrite (N)	2021/10/04		108	%	80 - 120
7612898	MCN	Method Blank		Nitrite (N)	2021/10/03	<0.010		mg/L	
7612898	MCN	RPD		Nitrite (N)	2021/10/03	NC		%	20
7615660	NGI	Matrix Spike		Dissolved Organic Carbon (C)	2021/10/05		91	%	85 - 115
7615660	NGI	Spiked Blank		Dissolved Organic Carbon (C)	2021/10/05		97	%	80 - 120
7615660	NGI	Method Blank		Dissolved Organic Carbon (C)	2021/10/05	<0.50		mg/L	
7615660	NGI	RPD		Dissolved Organic Carbon (C)	2021/10/05	0.14		%	15
7615937	NHU	Matrix Spike		Dissolved Mercury (Hg)	2021/10/05		102	%	80 - 120
7615937	NHU	Spiked Blank		Dissolved Mercury (Hg)	2021/10/05		102	%	80 - 120
7615937	NHU	Method Blank		Dissolved Mercury (Hg)	2021/10/05	<0.013		ug/L	
7615937	NHU	RPD		Dissolved Mercury (Hg)	2021/10/05	NC		%	20
7618212	NGI	Matrix Spike		Total Organic Carbon (C)	2021/10/05		90	%	85 - 115
7618212	NGI	Spiked Blank		Total Organic Carbon (C)	2021/10/05		97	%	80 - 120
7618212	NGI	Method Blank		Total Organic Carbon (C)	2021/10/05	<0.50		mg/L	
7618212	NGI	RPD		Total Organic Carbon (C)	2021/10/05	NC		%	15
7618237	NGI	Matrix Spike		Total Organic Carbon (C)	2021/10/05		93	%	85 - 115
7618237	NGI	Spiked Blank		Total Organic Carbon (C)	2021/10/05		102	%	80 - 120
7618237	NGI	Method Blank		Total Organic Carbon (C)	2021/10/05	<0.50		mg/L	
7618237	NGI	RPD		Total Organic Carbon (C)	2021/10/05	NC		%	15
7618252	NGI	Matrix Spike		Total Organic Carbon (C)	2021/10/06		94	%	85 - 115
7618252	NGI	Spiked Blank		Total Organic Carbon (C)	2021/10/06		102	%	80 - 120
7618252	NGI	Method Blank		Total Organic Carbon (C)	2021/10/06	<0.50		mg/L	



BV Labs Job #: C1R8048
Report Date: 2021/10/14

Anaconda Mining Inc
Sampler Initials: DB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC		QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
Batch	Init							
7618252	NGI	RPD	Total Organic Carbon (C)	2021/10/06	NC		%	15
N/A = Not Applicable Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement. Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference. QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy. Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy. Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination. NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration) NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference $\leq 2 \times \text{RDL}$). (1) Poor duplicate agreement due to sample matrix, results confirmed by repeat analysis (2) Poor matrix spike recovery due to probable sample matrix interference. (3) Poor spike recovery due to probable sample matrix interference.								



BV Labs Job #: C1R8048
Report Date: 2021/10/14

Anaconda Mining Inc
Sampler Initials: DB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "Mike MacGillivray".

Mike MacGillivray, Scientific Specialist (Inorganics)

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



DALHOUSIE
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Inspiring Minds

Department of Oceanography
1355 Oxford St
Halifax, NS
B3H 4R2

Determination of chlorophyll a by fluorescence

Client: Bureau Veritas Laboratories, 200 Bluewater Road, Bedford, NS, B4B 1G9

Attention: Maryann Comeau

Received: 2021-09-27

Project #: C1R8048

Completed: 2021-10-01

Hugh MacIntyre

Hugh MacIntyre, Ph.D.

Chl *a* (chlorophyll *a* ; $\mu\text{g L}^{-1}$) determined by the acidification method (Holm-Hansen et al., 1965). Estimates made with the non-acidification method (Welschmeyer, 1994) are shown for comparison.

The non-acidification method is considered more reliable than the acidification method in correcting for bias due to the contributions of chlorophyll *b* and chlorophyll degradation products.

Holm-Hansen O, Lorenzen CJ, Holmes RW, Strickland JDH (1965) Fluorometric determination of chlorophyll.

J Conseil 30:3-15

Welschmeyer NA (1994) Fluorometric analysis of chlorophyll *a* in the presence of chlorophyll *b* and phaeopigments.

Limnol Oceanogr 39:1985-1992

Contractor ID	Client ID	Chl a (acidification)	Chl a (non-acidification)
QTJ079-07R	SW-11-21	1.73	2.49
QTJ080-07R	SW-12-21	3.13	3.48
QTJ081-07R	SW-13-21	0.158	0.206
QTJ082-07R	SW-14-21	0.519	0.683
QTJ083-07R	SW-15-21	1.05	1.27
QTJ084-07R	SW-16-21	0.423	0.519
QTJ085-07R	SW-17-21	0.349	0.432
QTJ086-07R	SW-18-21	6.55	8.73
QTJ087-07R	SW-19-21	4.31	5.12

Contractor ID	Client ID	Chl a (acidification)	Chl a (non-acidification)
QTJ088-07R	SW-20-21	0.19	0.237
QTJ102-07R	SWDUPA	1.12	1.27

Methyl Mercury Results

Flett Research Ltd.

440 DeSalaberry Ave. Winnipeg, MB R2L 0Y7
 Fax/Phone (204) 667-2505
 E-mail: flett@flettresearch.ca Webpage: http://www.flettresearch.ca

MTWATR101221J51
 Page 1 of 1

CLIENT: Bureau Veritas - Bedford: C1R8048

200 Bluewater Road, Suite 105
 Bedford, NS B4B 1G9

Date Received: September 28, 2021

Sampling Date: September 22, 2021

Date Issued: October 14, 2021

Matrix: Water

Transaction ID: 894

PO/Contract No.:

Date Analysed: October 12, 2021

Analyst(s): Jason S.

Analytical Method: M10211: Methyl Mercury in Water by Distillation, Aqueous Ethylation, Purge and Trap, and CVAFS - Tekran 2700 Mercury Analyser (Version 2)

Comments: Samples had particulates present. Samples (except for SW-15-21 and SWDUPA) were also yellowish in colour.

Detection Limit: The method detection limit (MDL) for this method is 0.0035 ng/L. The MDL is the minimum concentration that can be reported with 99% confidence that the measured concentration exceeds zero and is based on the distillation of 45mL of raw sample and analysis of either 20 or 30mL of a 40mL distillate.

For reporting purpose samples are flagged when concentration is below the methods EPA defined minimum level (ML= 0.0135 ng/L).
 As concentration rises above the MDL confidence that the analyte is present approaches 100% at and above the ML.

Estimated Uncertainty: Overall uncertainty decreases as analyte concentration increases. When methyl mercury concentrations exceed 0.03ng/L the estimated uncertainty of the method is $\pm 15\%$. At a concentration of 0.01ng/L uncertainty is $\pm 23\%$. Method uncertainty for concentrations at MDL is $\pm 75\%$ (0.0035 ± 0.0026 ng/L). All method uncertainties are expressed at a 95% confidence level of ($k=2$).

Results authorized by Dr. Robert J. Flett, Chief Scientist

QUALITY DATA

NAIPD-6.7

LAB ID	Sampling Details	Sample ID	Date Sampled	Time Sampled	Sample Type	Gross Peak Area	Volume of Water Sample Distilled (mL)	% CH ₃ Hg Recovery Used for Calculations	Net CH ₃ Hg in the Sample as Hg (ng/L) [Ethylation & Method Blank subtracted] [recovery corrected]	
107077	QTJ079-06R	SW-11-21	September 22, 2021	12:38		399.50	12.15	84.7%	1.29	
107078	QTJ080-06R	SW-12-21	September 22, 2021	17:30		149.91	24.98	84.7%	0.225	
107079	QTJ081-06R	SW-13-21	September 22, 2021	11:31		217.77	20.93	84.7%	0.385	
107080	QTJ082-06R	SW-14-21	September 22, 2021	12:45		152.67	20.73	84.7%	0.259	
107081	QTJ083-06R	SW-15-21	September 22, 2021	10:11		36.36	46.89	84.7%	0.015	
107082	QTJ084-06R	SW-16-21	September 22, 2021	13:55		212.76	20.90	84.7%	0.379	
107083	QTJ085-06R	SW-17-21	September 22, 2021	15:05		209.86	20.40	84.7%	0.366	
107084	QTJ086-06R	SW-18-21	September 22, 2021	13:41		2365.51	6.57	84.7%	13.8	
107085	QTJ087-06R	SW-19-21	September 22, 2021	13:58	DupA1	701.62	7.94	84.7%	3.40	
107085	QTJ087-06R	SW-19-21	September 22, 2021	13:58	DupA2	679.17	8.91	84.7%	3.82	
107086	QTJ088-06R	SW-20-21	September 22, 2021	16:34		158.10	12.55	84.7%	0.494	
107087	QTJ102-06R	SWDUPA	September 22, 2021	12:06		41.26	46.89	84.7%	0.018	

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* : See 'Comments' section above for discussion.

This test report shall not be reproduced, except in full, without written approval of the laboratory.

Note: Results relate only to the items tested.

Dup : Duplicate - two subsamples of the same sample carried through the analytical procedure in an identical manner.



ISO/IEC 17025:2017 Accredited with the Canadian Association of Laboratory Accreditation

M10211-1 Version 021921



Your P.O. #: 0267
Your C.O.C. #: 848804-01-01, 848804-02-01

Attention: Derek Bullock

Anaconda Mining Inc
Goldboro Gold Mine
570 Goldbrook Road
Goldboro, NS
Canada BOH 1L0

Report Date: 2021/11/10
Report #: R6895161
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1V1420

Received: 2021/10/25, 14:25

Sample Matrix: Surface Water
Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Carbonate, Bicarbonate and Hydroxide	11	N/A	2021/10/29	N/A	SM 23 4500-CO2 D
Alkalinity	7	N/A	2021/11/03	ATL SOP 00013	EPA 310.2 R1974 m
Alkalinity	3	N/A	2021/11/04	ATL SOP 00013	EPA 310.2 R1974 m
Alkalinity	1	N/A	2021/11/05	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	6	N/A	2021/11/03	ATL SOP 00014	SM 23 4500-Cl- E m
Chloride	1	N/A	2021/11/04	ATL SOP 00014	SM 23 4500-Cl- E m
Chloride	4	N/A	2021/11/05	ATL SOP 00014	SM 23 4500-Cl- E m
Colour	7	N/A	2021/11/03	ATL SOP 00020	SM 23 2120C m
Colour	4	N/A	2021/11/05	ATL SOP 00020	SM 23 2120C m
Conductance - water	11	N/A	2021/10/29	ATL SOP 00004	SM 23 2510B m
Hardness (calculated as CaCO3)	11	N/A	2021/10/28	ATL SOP 00048	Auto Calc
Mercury - Dissolved (CVAA,LL)	4	2021/10/28	2021/10/28	ATL SOP 00026	EPA 245.1 R3 m
Mercury - Dissolved (CVAA,LL)	7	2021/10/29	2021/10/29	ATL SOP 00026	EPA 245.1 R3 m
Mercury - Total (CVAA,LL)	11	2021/10/29	2021/10/29	ATL SOP 00026	EPA 245.1 R3 m
Metals Water Diss. MS (as rec'd)	6	N/A	2021/10/28	ATL SOP 00058	EPA 6020B R2 m
Metals Water Diss. MS (as rec'd)	5	N/A	2021/11/01	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	10	2021/10/27	2021/10/27	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	1	2021/10/27	2021/10/28	ATL SOP 00058	EPA 6020B R2 m
Ion Balance (% Difference)	7	N/A	2021/11/04	N/A	Auto Calc.
Ion Balance (% Difference)	4	N/A	2021/11/05	N/A	Auto Calc.
Anion and Cation Sum	11	N/A	2021/11/03	N/A	Auto Calc.
Nitrogen Ammonia - water	11	N/A	2021/11/02	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	7	N/A	2021/11/03	ATL SOP 00016	USGS I-2547-11m
Nitrogen - Nitrate + Nitrite	4	N/A	2021/11/04	ATL SOP 00016	USGS I-2547-11m
Nitrogen - Nitrite	7	N/A	2021/11/03	ATL SOP 00017	SM 23 4500-NO2- B m
Nitrogen - Nitrite	4	N/A	2021/11/05	ATL SOP 00017	SM 23 4500-NO2- B m
Nitrogen - Nitrate (as N)	7	N/A	2021/11/04	ATL SOP 00018	ASTM D3867-16
Nitrogen - Nitrate (as N)	4	N/A	2021/11/05	ATL SOP 00018	ASTM D3867-16
pH (3)	11	N/A	2021/10/29	ATL SOP 00003	SM 23 4500-H+ B m
Phosphorus - ortho	7	N/A	2021/11/03	ATL SOP 00021	SM 23 4500-P E m
Phosphorus - ortho	4	N/A	2021/11/04	ATL SOP 00021	SM 23 4500-P E m



Your P.O. #: 0267
Your C.O.C. #: 848804-01-01, 848804-02-01

Attention: Derek Bullock

Anaconda Mining Inc
Goldboro Gold Mine
570 Goldbrook Road
Goldboro, NS
Canada BOH 1L0

Report Date: 2021/11/10
Report #: R6895161
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1V1420

Received: 2021/10/25, 14:25

Sample Matrix: Surface Water
Samples Received: 11

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Sat. pH and Langelier Index (@ 20C)	7	N/A	2021/11/04	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 20C)	4	N/A	2021/11/05	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	7	N/A	2021/11/04	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	4	N/A	2021/11/05	ATL SOP 00049	Auto Calc.
Reactive Silica	7	N/A	2021/11/03	ATL SOP 00022	EPA 366.0 m
Reactive Silica	4	N/A	2021/11/05	ATL SOP 00022	EPA 366.0 m
Sulphate	6	N/A	2021/11/03	ATL SOP 00023	ASTM D516-16 m
Sulphate	5	N/A	2021/11/04	ATL SOP 00023	ASTM D516-16 m
Chlorophyll A (Sub from Bedford) (1)	11	2021/10/26	2021/10/29		
Methyl Mercury (sub from Bedford) (2)	11	N/A	2021/11/04		EPA 1630
Total Dissolved Solids (TDS calc)	7	N/A	2021/11/04	N/A	Auto Calc.
Total Dissolved Solids (TDS calc)	4	N/A	2021/11/05	N/A	Auto Calc.
Organic carbon - Total (TOC) (4)	2	N/A	2021/10/28	ATL SOP 00203	SM 23 5310B m
Organic carbon - Total (TOC) (4)	3	N/A	2021/10/29	ATL SOP 00203	SM 23 5310B m
Organic carbon - Total (TOC) (4)	6	N/A	2021/11/01	ATL SOP 00203	SM 23 5310B m
Turbidity	11	N/A	2021/10/29	ATL SOP 00011	EPA 180.1 R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

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Your P.O. #: 0267
Your C.O.C. #: 848804-01-01, 848804-02-01

Attention: Derek Bullock

Anaconda Mining Inc
Goldboro Gold Mine
570 Goldbrook Road
Goldboro, NS
Canada BOH 1L0

Report Date: 2021/11/10
Report #: R6895161
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1V1420

Received: 2021/10/25, 14:25

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Dalhousie University, 1355 Oxford Street Dept of Oceanography Rm 2605, Halifax, NS, B3H 4R2

(2) This test was performed by Flett Research Ltd., 440 DeSalaberry Ave. , Winnipeg, MB, R2L0Y7

(3) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

(4) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key



Bureau Veritas

10 Nov 2021 13:48:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Atena Georgescu, Project Manager II

Email: Atena.Georgescu@bureauveritas.com

Phone# (902)420-0203 Ext:239

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This report has been generated and distributed using a secure automated process.

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RESULTS OF ANALYSES OF SURFACE WATER

Bureau Veritas ID		RAP139		RAP140			RAP141		
Sampling Date		2021/10/22 10:09		2021/10/22 08:34			2021/10/21 09:22		
COC Number		848804-01-01		848804-01-01			848804-01-01		
	UNITS	SW-11-21	QC Batch	SW-12-21	RDL	QC Batch	SW-13-21	RDL	QC Batch
Calculated Parameters									
Anion Sum	me/L	0.260	7657523	0.120	N/A	7660403	0.190	N/A	7660403
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	7657518	<1.0	1.0	7660401	<1.0	1.0	7660401
Calculated TDS	mg/L	22	7657530	14	1.0	7660407	22	1.0	7660407
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	7657518	<1.0	1.0	7660401	<1.0	1.0	7660401
Cation Sum	me/L	0.390	7657523	0.290	N/A	7660403	0.360	N/A	7660403
Hardness (CaCO ₃)	mg/L	6.1	7658345	4.0	1.0	7658345	4.5	1.0	7658345
Ion Balance (% Difference)	%	20.0	7657522	41.5	N/A	7660402	30.9	N/A	7660402
Langelier Index (@ 20C)	N/A	NC	7657527	NC		7660405	NC		7660405
Langelier Index (@ 4C)	N/A	NC	7657528	NC		7660406	NC		7660406
Nitrate (N)	mg/L	<0.050	7658210	<0.050	0.050	7658210	<0.050	0.050	7658210
Saturation pH (@ 20C)	N/A	NC	7657527	NC		7660405	NC		7660405
Saturation pH (@ 4C)	N/A	NC	7657528	NC		7660406	NC		7660406
Inorganics									
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	7679930	<5.0	5.0	7676945	<5.0	5.0	7676945
Dissolved Chloride (Cl ⁻)	mg/L	9.2	7679942	4.4	1.0	7677035	6.9	1.0	7677035
Colour	TCU	160	7679952	190	25	7677041	280	50	7677041
Nitrate + Nitrite (N)	mg/L	<0.050	7679954	<0.050	0.050	7677043	<0.050	0.050	7677043
Nitrite (N)	mg/L	<0.010	7679955	<0.010	0.010	7677044	<0.010	0.010	7677044
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	7674422	<0.050	0.050	7674422	<0.050	0.050	7674422
Total Organic Carbon (C)	mg/L	16	7665605	16	0.50	7668470	26	0.50	7668470
Orthophosphate (P)	mg/L	0.031	7679953	<0.010	0.010	7677042	<0.010	0.010	7677042
pH	pH	6.17	7668340	5.87		7668345	5.35		7668340
Reactive Silica (SiO ₂)	mg/L	4.3	7679948	2.7	0.50	7677039	6.8	0.50	7677039
Dissolved Sulphate (SO ₄)	mg/L	<2.0	7679943	<2.0	2.0	7677037	<2.0	2.0	7677037
Turbidity	NTU	1.5	7668388	0.99	0.10	7668388	0.82	0.10	7668388
Conductivity	uS/cm	42	7668338	33	1.0	7668341	42	1.0	7668338
Subcontracted Analysis									
Subcontract Parameter	N/A	ATTACHED	7661332	ATTACHED	N/A	7661332	ATTACHED	N/A	7661332
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									



RESULTS OF ANALYSES OF SURFACE WATER

Bureau Veritas ID		RAP142			RAP143			RAP144		
Sampling Date		2021/10/21 09:58			2021/10/21 18:01			2021/10/21 12:28		
COC Number		848804-01-01			848804-01-01			848804-01-01		
	UNITS	SW-14-21	RDL	QC Batch	SW-15-21	RDL	QC Batch	SW-16-21	RDL	QC Batch
Calculated Parameters										
Anion Sum	me/L	0.180	N/A	7660403	0.170	N/A	7660403	0.180	N/A	7660403
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7660401	<1.0	1.0	7660401	<1.0	1.0	7660401
Calculated TDS	mg/L	19	1.0	7660407	12	1.0	7660407	19	1.0	7660407
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7660401	<1.0	1.0	7660401	<1.0	1.0	7660401
Cation Sum	me/L	0.340	N/A	7660403	0.230	N/A	7660403	0.330	N/A	7660403
Hardness (CaCO ₃)	mg/L	4.6	1.0	7658345	3.1	1.0	7658345	4.6	1.0	7658345
Ion Balance (% Difference)	%	30.8	N/A	7660402	15.0	N/A	7660402	29.4	N/A	7660402
Langelier Index (@ 20C)	N/A	NC		7660405	NC		7660405	NC		7660405
Langelier Index (@ 4C)	N/A	NC		7660406	NC		7660406	NC		7660406
Nitrate (N)	mg/L	<0.050	0.050	7658210	<0.050	0.050	7658210	<0.050	0.050	7658210
Saturation pH (@ 20C)	N/A	NC		7660405	NC		7660405	NC		7660405
Saturation pH (@ 4C)	N/A	NC		7660406	NC		7660406	NC		7660406
Inorganics										
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7676945	<5.0	5.0	7679962	<5.0	5.0	7676945
Dissolved Chloride (Cl ⁻)	mg/L	6.2	1.0	7677035	6.0	1.0	7679969	6.3	1.0	7677035
Colour	TCU	230	25	7677041	36	5.0	7679972	260	50	7677041
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7677043	<0.050	0.050	7679975	<0.050	0.050	7677043
Nitrite (N)	mg/L	<0.010	0.010	7677044	<0.010	0.010	7679976	<0.010	0.010	7677044
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7674422	<0.050	0.050	7674422	<0.050	0.050	7674422
Total Organic Carbon (C)	mg/L	20	0.50	7665605	4.6	0.50	7665613	25	0.50	7665605
Orthophosphate (P)	mg/L	<0.010	0.010	7677042	<0.010	0.010	7679973	<0.010	0.010	7677042
pH	pH	5.50		7668340	5.93		7668340	5.26		7668340
Reactive Silica (SiO ₂)	mg/L	5.5	0.50	7677039	1.5	0.50	7679971	5.5	0.50	7677039
Dissolved Sulphate (SO ₄)	mg/L	<2.0	2.0	7677037	<2.0	2.0	7679970	<2.0	2.0	7677037
Turbidity	NTU	0.55	0.10	7668388	0.98	0.10	7668391	1.4	0.10	7668388
Conductivity	uS/cm	36	1.0	7668338	27	1.0	7668338	41	1.0	7668338
Subcontracted Analysis										
Subcontract Parameter	N/A	ATTACHED	N/A	7661332	ATTACHED	N/A	7661332	ATTACHED	N/A	7661332
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable										



RESULTS OF ANALYSES OF SURFACE WATER

Bureau Veritas ID		RAP145		RAP146			RAP147		
Sampling Date		2021/10/21 14:59		2021/10/22 11:23			2021/10/22 11:36		
COC Number		848804-01-01		848804-01-01			848804-01-01		
	UNITS	SW-17-21	QC Batch	SW-18-21	RDL	QC Batch	SW-19-21	RDL	QC Batch
Calculated Parameters									
Anion Sum	me/L	0.170	7660403	0.240	N/A	7660403	0.200	N/A	7660403
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	7660401	<1.0	1.0	7660401	<1.0	1.0	7660401
Calculated TDS	mg/L	20	7660407	24	1.0	7660407	19	1.0	7660407
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	7660401	<1.0	1.0	7660401	<1.0	1.0	7660401
Cation Sum	me/L	0.330	7660403	0.370	N/A	7660403	0.370	N/A	7660403
Hardness (CaCO ₃)	mg/L	4.6	7658345	5.2	1.0	7658345	4.7	1.0	7658345
Ion Balance (% Difference)	%	32.0	7660402	21.3	N/A	7660402	29.8	N/A	7660402
Langelier Index (@ 20C)	N/A	NC	7660405	NC		7660405	NC		7660405
Langelier Index (@ 4C)	N/A	NC	7660406	NC		7660406	NC		7660406
Nitrate (N)	mg/L	<0.050	7658210	<0.050	0.050	7658210	<0.050	0.050	7658210
Saturation pH (@ 20C)	N/A	NC	7660405	NC		7660405	NC		7660405
Saturation pH (@ 4C)	N/A	NC	7660406	NC		7660406	NC		7660406
Inorganics									
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	7676945	<5.0	5.0	7679991	<5.0	5.0	7676945
Dissolved Chloride (Cl ⁻)	mg/L	6.1	7677035	8.5	1.0	7679995	6.9	1.0	7677035
Colour	TCU	310	7677041	290	50	7679999	380	100	7677041
Nitrate + Nitrite (N)	mg/L	<0.050	7677043	<0.050	0.050	7680003	<0.050	0.050	7677043
Nitrite (N)	mg/L	<0.010	7677044	<0.010	0.010	7680004	<0.010	0.010	7677044
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	7674422	<0.050	0.050	7674422	<0.050	0.050	7674422
Total Organic Carbon (C)	mg/L	28	7668461	23	0.50	7668461	42	0.50	7668470
Orthophosphate (P)	mg/L	<0.010	7677042	<0.010	0.010	7680002	<0.010	0.010	7677042
pH	pH	5.18	7668340	5.61		7668345	5.04		7668345
Reactive Silica (SiO ₂)	mg/L	6.9	7677039	6.9	0.50	7679998	4.5	0.50	7677039
Dissolved Sulphate (SO ₄)	mg/L	<2.0	7677037	<2.0	2.0	7679996	<2.0	2.0	7677037
Turbidity	NTU	3.6	7668388	1.4	0.10	7668388	15	0.10	7668388
Conductivity	uS/cm	42	7668338	38	1.0	7668341	51	1.0	7668341
Subcontracted Analysis									
Subcontract Parameter	N/A	ATTACHED	7661332	ATTACHED	N/A	7661332	ATTACHED	N/A	7661332
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									



RESULTS OF ANALYSES OF SURFACE WATER

Bureau Veritas ID		RAP148			RAP198		
Sampling Date		2021/10/21 16:24			2021/10/22 12:00		
COC Number		848804-01-01			848804-02-01		
	UNITS	SW-20-21	RDL	QC Batch	SWDUPA	RDL	QC Batch
Calculated Parameters							
Anion Sum	me/L	0.200	N/A	7660403	0.200	N/A	7660403
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7660401	<1.0	1.0	7660401
Calculated TDS	mg/L	21	1.0	7660407	15	1.0	7660407
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7660401	<1.0	1.0	7660401
Cation Sum	me/L	0.370	N/A	7660403	0.280	N/A	7660403
Hardness (CaCO ₃)	mg/L	5.3	1.0	7658345	3.8	1.0	7658345
Ion Balance (% Difference)	%	29.8	N/A	7660402	16.7	N/A	7660402
Langelier Index (@ 20C)	N/A	NC		7660405	NC		7660405
Langelier Index (@ 4C)	N/A	NC		7660406	NC		7660406
Nitrate (N)	mg/L	<0.050	0.050	7658210	<0.050	0.050	7658210
Saturation pH (@ 20C)	N/A	NC		7660405	NC		7660405
Saturation pH (@ 4C)	N/A	NC		7660406	NC		7660406
Inorganics							
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7676945	<5.0	5.0	7680034
Dissolved Chloride (Cl ⁻)	mg/L	7.1	1.0	7677035	7.1	1.0	7680043
Colour	TCU	300	50	7677041	180	25	7680060
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7677043	<0.050	0.050	7680068
Nitrite (N)	mg/L	<0.010	0.010	7677044	<0.010	0.010	7680073
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7674422	<0.050	0.050	7674422
Total Organic Carbon (C)	mg/L	27	0.50	7668470	15	0.50	7665613
Orthophosphate (P)	mg/L	<0.010	0.010	7677042	<0.010	0.010	7680065
pH	pH	5.33		7668345	5.56		7668345
Reactive Silica (SiO ₂)	mg/L	5.8	0.50	7677039	2.1	0.50	7680059
Dissolved Sulphate (SO ₄)	mg/L	<2.0	2.0	7677037	<2.0	2.0	7680050
Turbidity	NTU	5.9	0.10	7668388	1.1	0.10	7668388
Conductivity	uS/cm	42	1.0	7668341	32	1.0	7668341
Subcontracted Analysis							
Subcontract Parameter	N/A	ATTACHED	N/A	7661332	ATTACHED	N/A	7661332
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable							



MERCURY BY COLD VAPOUR AA (SURFACE WATER)

Bureau Veritas ID		RAP139	RAP140		RAP141	RAP142	RAP143		
Sampling Date		2021/10/22 10:09	2021/10/22 08:34		2021/10/21 09:22	2021/10/21 09:58	2021/10/21 18:01		
COC Number		848804-01-01	848804-01-01		848804-01-01	848804-01-01	848804-01-01		
	UNITS	SW-11-21	SW-12-21	QC Batch	SW-13-21	SW-14-21	SW-15-21	RDL	QC Batch

Metals

Dissolved Mercury (Hg)	ug/L	<0.013	<0.013	7663284	<0.013	<0.013	<0.013	0.013	7666509
Total Mercury (Hg)	ug/L	<0.013	<0.013	7666442	<0.013	<0.013	<0.013	0.013	7666442

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Bureau Veritas ID		RAP144	RAP145		RAP146	RAP147		RAP148		
Sampling Date		2021/10/21 12:28	2021/10/21 14:59		2021/10/22 11:23	2021/10/22 11:36		2021/10/21 16:24		
COC Number		848804-01-01	848804-01-01		848804-01-01	848804-01-01		848804-01-01		
	UNITS	SW-16-21	SW-17-21	QC Batch	SW-18-21	SW-19-21	QC Batch	SW-20-21	RDL	QC Batch

Metals

Dissolved Mercury (Hg)	ug/L	<0.013	<0.013	7666509	<0.013	<0.013	7663284	<0.013	0.013	7666509
Total Mercury (Hg)	ug/L	<0.013	<0.013	7666442	<0.013	0.020	7666442	<0.013	0.013	7666442

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Bureau Veritas ID		RAP198		
Sampling Date		2021/10/22 12:00		
COC Number		848804-02-01		
	UNITS	SWDUPA	RDL	QC Batch

Metals

Dissolved Mercury (Hg)	ug/L	<0.013	0.013	7666509
Total Mercury (Hg)	ug/L	<0.013	0.013	7666442

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



ELEMENTS BY ICP/MS (SURFACE WATER)

Bureau Veritas ID		RAP139	RAP140		RAP141	RAP142	RAP143		
Sampling Date		2021/10/22 10:09	2021/10/22 08:34		2021/10/21 09:22	2021/10/21 09:58	2021/10/21 18:01		
COC Number		848804-01-01	848804-01-01		848804-01-01	848804-01-01	848804-01-01		
	UNITS	SW-11-21	SW-12-21	QC Batch	SW-13-21	SW-14-21	SW-15-21	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	300	390	7666027	490	340	95	5.0	7666027
Total Aluminum (Al)	mg/L	0.302	0.380	7662882	0.487	0.335	0.111	0.0050	7662868
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	7666027	<1.0	<1.0	<1.0	1.0	7666027
Total Antimony (Sb)	mg/L	<0.0010	<0.0010	7662882	<0.0010	<0.0010	<0.0010	0.0010	7662868
Dissolved Arsenic (As)	ug/L	100	15	7666027	3.9	1.5	<1.0	1.0	7666027
Total Arsenic (As)	mg/L	0.102	0.0152	7662882	0.0039	0.0015	<0.0010	0.0010	7662868
Dissolved Barium (Ba)	ug/L	3.3	3.0	7666027	3.3	11	1.8	1.0	7666027
Total Barium (Ba)	mg/L	0.0033	0.0029	7662882	0.0031	0.0025	0.0019	0.0010	7662868
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	7666027	<0.10	<0.10	<0.10	0.10	7666027
Total Beryllium (Be)	mg/L	<0.00010	<0.00010	7662882	<0.00010	<0.00010	<0.00010	0.00010	7662868
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	7666027	<2.0	<2.0	<2.0	2.0	7666027
Total Bismuth (Bi)	mg/L	<0.0020	<0.0020	7662882	<0.0020	<0.0020	<0.0020	0.0020	7662868
Dissolved Boron (B)	ug/L	<50	<50	7666027	<50	<50	<50	50	7666027
Total Boron (B)	mg/L	<0.050	<0.050	7662882	<0.050	<0.050	<0.050	0.050	7662868
Dissolved Cadmium (Cd)	ug/L	<0.010	0.014	7666027	0.015	0.013	<0.010	0.010	7666027
Total Cadmium (Cd)	mg/L	<0.000010	0.000014	7662882	0.000017	0.000012	<0.000010	0.000010	7662868
Dissolved Calcium (Ca)	ug/L	1300	740	7666027	740	910	480	100	7666027
Total Calcium (Ca)	mg/L	1.48	0.71	7662882	0.71	0.85	0.49	0.10	7662868
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	7666027	<1.0	<1.0	<1.0	1.0	7666027
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	7662882	<0.0010	<0.0010	<0.0010	0.0010	7662868
Dissolved Cobalt (Co)	ug/L	<0.40	<0.40	7666027	0.50	<0.40	<0.40	0.40	7666027
Total Cobalt (Co)	mg/L	<0.00040	<0.00040	7662882	0.00049	<0.00040	<0.00040	0.00040	7662868
Dissolved Copper (Cu)	ug/L	<0.50	<0.50	7666027	<0.50	<0.50	<0.50	0.50	7666027
Total Copper (Cu)	mg/L	<0.00050	0.00056	7662882	<0.00050	<0.00050	<0.00050	0.00050	7662868
Dissolved Iron (Fe)	ug/L	760	560	7666027	1200	750	92	50	7666027
Total Iron (Fe)	mg/L	0.897	0.642	7662882	1.16	0.784	0.158	0.050	7662868
Dissolved Lead (Pb)	ug/L	<0.50	0.60	7666027	0.78	0.68	<0.50	0.50	7666027
Total Lead (Pb)	mg/L	<0.00050	0.00063	7662882	0.00084	0.00070	<0.00050	0.00050	7662868
Dissolved Magnesium (Mg)	ug/L	670	530	7666027	640	560	460	100	7666027
Total Magnesium (Mg)	mg/L	0.72	0.52	7662882	0.60	0.53	0.43	0.10	7662868
Dissolved Manganese (Mn)	ug/L	27	19	7666027	76	25	11	2.0	7666027
Total Manganese (Mn)	mg/L	0.0302	0.0189	7662882	0.0728	0.0243	0.0177	0.0020	7662868
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	7666027	<2.0	<2.0	<2.0	2.0	7666027
Total Molybdenum (Mo)	mg/L	<0.0020	<0.0020	7662882	<0.0020	<0.0020	<0.0020	0.0020	7662868
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	7666027	<2.0	<2.0	<2.0	2.0	7666027
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



Bureau Veritas Job #: C1V1420
Report Date: 2021/11/10

Anaconda Mining Inc
Your P.O. #: 0267
Sampler Initials: DB

ELEMENTS BY ICP/MS (SURFACE WATER)

Bureau Veritas ID		RAP139	RAP140		RAP141	RAP142	RAP143		
Sampling Date		2021/10/22 10:09	2021/10/22 08:34		2021/10/21 09:22	2021/10/21 09:58	2021/10/21 18:01		
COC Number		848804-01-01	848804-01-01		848804-01-01	848804-01-01	848804-01-01		
	UNITS	SW-11-21	SW-12-21	QC Batch	SW-13-21	SW-14-21	SW-15-21	RDL	QC Batch
Total Nickel (Ni)	mg/L	<0.0020	<0.0020	7662882	<0.0020	<0.0020	<0.0020	0.0020	7662868
Dissolved Phosphorus (P)	ug/L	<100	<100	7666027	<100	<100	<100	100	7666027
Total Phosphorus (P)	mg/L	<0.10	<0.10	7662882	<0.10	<0.10	<0.10	0.10	7662868
Dissolved Potassium (K)	ug/L	470	310	7666027	270	300	300	100	7666027
Total Potassium (K)	mg/L	0.49	0.30	7662882	0.26	0.28	0.30	0.10	7662868
Dissolved Selenium (Se)	ug/L	<0.50	<0.50	7666027	<0.50	<0.50	<0.50	0.50	7666027
Total Selenium (Se)	mg/L	<0.00050	<0.00050	7662882	<0.00050	<0.00050	<0.00050	0.00050	7662868
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	7666027	<0.10	<0.10	<0.10	0.10	7666027
Total Silver (Ag)	mg/L	<0.00010	<0.00010	7662882	<0.00010	<0.00010	<0.00010	0.00010	7662868
Dissolved Sodium (Na)	ug/L	5200	4200	7666027	4900	4700	3700	100	7666027
Total Sodium (Na)	mg/L	5.45	4.00	7662882	4.57	4.38	3.56	0.10	7662868
Dissolved Strontium (Sr)	ug/L	11	7.5	7666027	8.6	8.9	5.2	2.0	7666027
Total Strontium (Sr)	mg/L	0.0116	0.0073	7662882	0.0083	0.0084	0.0052	0.0020	7662868
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	7666027	<0.10	<0.10	<0.10	0.10	7666027
Total Thallium (Tl)	mg/L	<0.00010	<0.00010	7662882	<0.00010	<0.00010	<0.00010	0.00010	7662868
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	7666027	<2.0	<2.0	<2.0	2.0	7666027
Total Tin (Sn)	mg/L	<0.0020	<0.0020	7662882	<0.0020	<0.0020	<0.0020	0.0020	7662868
Dissolved Titanium (Ti)	ug/L	3.5	4.4	7666027	6.2	4.1	<2.0	2.0	7666027
Total Titanium (Ti)	mg/L	0.0046	0.0065	7662882	0.0071	0.0044	<0.0020	0.0020	7662868
Dissolved Uranium (U)	ug/L	<0.10	<0.10	7666027	<0.10	<0.10	<0.10	0.10	7666027
Total Uranium (U)	mg/L	<0.00010	<0.00010	7662882	<0.00010	<0.00010	<0.00010	0.00010	7662868
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	7666027	<2.0	<2.0	<2.0	2.0	7666027
Total Vanadium (V)	mg/L	<0.0020	<0.0020	7662882	<0.0020	<0.0020	<0.0020	0.0020	7662868
Dissolved Zinc (Zn)	ug/L	22	<5.0	7666027	<5.0	40	<5.0	5.0	7666027
Total Zinc (Zn)	mg/L	<0.0050	<0.0050	7662882	<0.0050	<0.0050	<0.0050	0.0050	7662868
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



ELEMENTS BY ICP/MS (SURFACE WATER)

Bureau Veritas ID		RAP144		RAP145		RAP146		
Sampling Date		2021/10/21 12:28		2021/10/21 14:59		2021/10/22 11:23		
COC Number		848804-01-01		848804-01-01		848804-01-01		
	UNITS	SW-16-21	QC Batch	SW-17-21	QC Batch	SW-18-21	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	420	7666027	520	7672354	430	5.0	7672354
Total Aluminum (Al)	mg/L	0.415	7662882	0.530	7662882	0.488	0.0050	7662868
Dissolved Antimony (Sb)	ug/L	<1.0	7666027	<1.0	7672354	<1.0	1.0	7672354
Total Antimony (Sb)	mg/L	<0.0010	7662882	<0.0010	7662882	<0.0010	0.0010	7662868
Dissolved Arsenic (As)	ug/L	<1.0	7666027	<1.0	7672354	1.7	1.0	7672354
Total Arsenic (As)	mg/L	<0.0010	7662882	<0.0010	7662882	0.0021	0.0010	7662868
Dissolved Barium (Ba)	ug/L	3.3	7666027	3.6	7672354	3.4	1.0	7672354
Total Barium (Ba)	mg/L	0.0032	7662882	0.0036	7662882	0.0036	0.0010	7662868
Dissolved Beryllium (Be)	ug/L	<0.10	7666027	<0.10	7672354	<0.10	0.10	7672354
Total Beryllium (Be)	mg/L	<0.00010	7662882	<0.00010	7662882	<0.00010	0.00010	7662868
Dissolved Bismuth (Bi)	ug/L	<2.0	7666027	<2.0	7672354	<2.0	2.0	7672354
Total Bismuth (Bi)	mg/L	<0.0020	7662882	<0.0020	7662882	<0.0020	0.0020	7662868
Dissolved Boron (B)	ug/L	<50	7666027	<50	7672354	<50	50	7672354
Total Boron (B)	mg/L	<0.050	7662882	<0.050	7662882	<0.050	0.050	7662868
Dissolved Cadmium (Cd)	ug/L	0.017	7666027	0.016	7672354	0.012	0.010	7672354
Total Cadmium (Cd)	mg/L	0.000018	7662882	0.000020	7662882	0.000011	0.000010	7662868
Dissolved Calcium (Ca)	ug/L	820	7666027	930	7672354	940	100	7672354
Total Calcium (Ca)	mg/L	0.81	7662882	0.90	7662882	0.92	0.10	7662868
Dissolved Chromium (Cr)	ug/L	<1.0	7666027	<1.0	7672354	<1.0	1.0	7672354
Total Chromium (Cr)	mg/L	<0.0010	7662882	<0.0010	7662882	<0.0010	0.0010	7662868
Dissolved Cobalt (Co)	ug/L	<0.40	7666027	<0.40	7672354	0.54	0.40	7672354
Total Cobalt (Co)	mg/L	<0.00040	7662882	<0.00040	7662882	0.00055	0.00040	7662868
Dissolved Copper (Cu)	ug/L	<0.50	7666027	<0.50	7672354	<0.50	0.50	7672354
Total Copper (Cu)	mg/L	<0.00050	7662882	<0.00050	7662882	<0.00050	0.00050	7662868
Dissolved Iron (Fe)	ug/L	630	7666027	800	7672354	1700	50	7672354
Total Iron (Fe)	mg/L	0.686	7662882	0.913	7662882	1.81	0.050	7662868
Dissolved Lead (Pb)	ug/L	0.69	7666027	0.86	7672354	0.71	0.50	7672354
Total Lead (Pb)	mg/L	0.00079	7662882	0.00112	7662882	0.00078	0.00050	7662868
Dissolved Magnesium (Mg)	ug/L	630	7666027	550	7672354	690	100	7672354
Total Magnesium (Mg)	mg/L	0.63	7662882	0.62	7662882	0.73	0.10	7662868
Dissolved Manganese (Mn)	ug/L	16	7666027	20	7672354	360	2.0	7672354
Total Manganese (Mn)	mg/L	0.0165	7662882	0.0197	7662882	0.369	0.0020	7662868
Dissolved Molybdenum (Mo)	ug/L	<2.0	7666027	<2.0	7672354	<2.0	2.0	7672354
Total Molybdenum (Mo)	mg/L	<0.0020	7662882	<0.0020	7662882	<0.0020	0.0020	7662868
Dissolved Nickel (Ni)	ug/L	<2.0	7666027	<2.0	7672354	<2.0	2.0	7672354
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



ELEMENTS BY ICP/MS (SURFACE WATER)

Bureau Veritas ID		RAP144		RAP145		RAP146		
Sampling Date		2021/10/21 12:28		2021/10/21 14:59		2021/10/22 11:23		
COC Number		848804-01-01		848804-01-01		848804-01-01		
	UNITS	SW-16-21	QC Batch	SW-17-21	QC Batch	SW-18-21	RDL	QC Batch
Total Nickel (Ni)	mg/L	<0.0020	7662882	<0.0020	7662882	<0.0020	0.0020	7662868
Dissolved Phosphorus (P)	ug/L	<100	7666027	<100	7672354	<100	100	7672354
Total Phosphorus (P)	mg/L	<0.10	7662882	<0.10	7662882	<0.10	0.10	7662868
Dissolved Potassium (K)	ug/L	290	7666027	300	7672354	410	100	7672354
Total Potassium (K)	mg/L	0.28	7662882	0.28	7662882	0.39	0.10	7662868
Dissolved Selenium (Se)	ug/L	<0.50	7666027	<0.50	7672354	<0.50	0.50	7672354
Total Selenium (Se)	mg/L	<0.00050	7662882	<0.00050	7662882	<0.00050	0.00050	7662868
Dissolved Silver (Ag)	ug/L	<0.10	7666027	<0.10	7672354	<0.10	0.10	7672354
Total Silver (Ag)	mg/L	<0.00010	7662882	<0.00010	7662882	<0.00010	0.00010	7662868
Dissolved Sodium (Na)	ug/L	4600	7666027	4500	7672354	4600	100	7672354
Total Sodium (Na)	mg/L	4.52	7662882	4.85	7662882	4.75	0.10	7662868
Dissolved Strontium (Sr)	ug/L	9.3	7666027	9.3	7672354	7.6	2.0	7672354
Total Strontium (Sr)	mg/L	0.0094	7662882	0.0094	7662882	0.0078	0.0020	7662868
Dissolved Thallium (Tl)	ug/L	<0.10	7666027	<0.10	7672354	<0.10	0.10	7672354
Total Thallium (Tl)	mg/L	<0.00010	7662882	<0.00010	7662882	<0.00010	0.00010	7662868
Dissolved Tin (Sn)	ug/L	<2.0	7666027	<2.0	7672354	<2.0	2.0	7672354
Total Tin (Sn)	mg/L	<0.0020	7662882	<0.0020	7662882	<0.0020	0.0020	7662868
Dissolved Titanium (Ti)	ug/L	4.8	7666027	5.3	7672354	6.4	2.0	7672354
Total Titanium (Ti)	mg/L	0.0058	7662882	0.0083	7662882	0.0078	0.0020	7662868
Dissolved Uranium (U)	ug/L	<0.10	7666027	<0.10	7672354	<0.10	0.10	7672354
Total Uranium (U)	mg/L	<0.00010	7662882	<0.00010	7662882	<0.00010	0.00010	7662868
Dissolved Vanadium (V)	ug/L	<2.0	7666027	<2.0	7672354	<2.0	2.0	7672354
Total Vanadium (V)	mg/L	<0.0020	7662882	<0.0020	7662882	<0.0020	0.0020	7662868
Dissolved Zinc (Zn)	ug/L	<5.0	7666027	8.6	7672354	<5.0	5.0	7672354
Total Zinc (Zn)	mg/L	<0.0050	7662882	<0.0050	7662882	<0.0050	0.0050	7662868
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



ELEMENTS BY ICP/MS (SURFACE WATER)

Bureau Veritas ID		RAP147	RAP148	RAP198		
Sampling Date		2021/10/22 11:36	2021/10/21 16:24	2021/10/22 12:00		
COC Number		848804-01-01	848804-01-01	848804-02-01		
	UNITS	SW-19-21	SW-20-21	SWDUPA	RDL	QC Batch
Metals						
Dissolved Aluminum (Al)	ug/L	620	640	380	5.0	7672354
Total Aluminum (Al)	mg/L	0.726	0.686	0.402	0.0050	7662882
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	<1.0	1.0	7672354
Total Antimony (Sb)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	7662882
Dissolved Arsenic (As)	ug/L	2.9	10	14	1.0	7672354
Total Arsenic (As)	mg/L	0.0034	0.0119	0.0151	0.0010	7662882
Dissolved Barium (Ba)	ug/L	2.6	3.7	3.0	1.0	7672354
Total Barium (Ba)	mg/L	0.0035	0.0040	0.0030	0.0010	7662882
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	0.10	7672354
Total Beryllium (Be)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	7662882
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	2.0	7672354
Total Bismuth (Bi)	mg/L	<0.0020	<0.0020	<0.0020	0.0020	7662882
Dissolved Boron (B)	ug/L	<50	<50	<50	50	7672354
Total Boron (B)	mg/L	<0.050	<0.050	<0.050	0.050	7662882
Dissolved Cadmium (Cd)	ug/L	0.012	0.015	0.012	0.010	7672354
Total Cadmium (Cd)	mg/L	0.000019	0.000021	0.000015	0.000010	7662882
Dissolved Calcium (Ca)	ug/L	960	960	660	100	7672354
Total Calcium (Ca)	mg/L	0.96	0.97	0.76	0.10	7662882
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	1.0	7672354
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	7662882
Dissolved Cobalt (Co)	ug/L	<0.40	0.56	<0.40	0.40	7672354
Total Cobalt (Co)	mg/L	<0.00040	0.00061	<0.00040	0.00040	7662882
Dissolved Copper (Cu)	ug/L	<0.50	0.54	<0.50	0.50	7672354
Total Copper (Cu)	mg/L	0.00064	0.00115	<0.00050	0.00050	7662882
Dissolved Iron (Fe)	ug/L	1500	1200	530	50	7672354
Total Iron (Fe)	mg/L	1.84	1.35	0.648	0.050	7662882
Dissolved Lead (Pb)	ug/L	1.7	0.85	0.59	0.50	7672354
Total Lead (Pb)	mg/L	0.00279	0.00121	0.00066	0.00050	7662882
Dissolved Magnesium (Mg)	ug/L	560	700	510	100	7672354
Total Magnesium (Mg)	mg/L	0.63	0.78	0.54	0.10	7662882
Dissolved Manganese (Mn)	ug/L	39	59	19	2.0	7672354
Total Manganese (Mn)	mg/L	0.0345	0.0616	0.0194	0.0020	7662882
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	<2.0	2.0	7672354
Total Molybdenum (Mo)	mg/L	<0.0020	<0.0020	<0.0020	0.0020	7662882
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	<2.0	2.0	7672354
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



ELEMENTS BY ICP/MS (SURFACE WATER)

Bureau Veritas ID		RAP147	RAP148	RAP198		
Sampling Date		2021/10/22 11:36	2021/10/21 16:24	2021/10/22 12:00		
COC Number		848804-01-01	848804-01-01	848804-02-01		
	UNITS	SW-19-21	SW-20-21	SWDUPA	RDL	QC Batch
Total Nickel (Ni)	mg/L	<0.0020	<0.0020	<0.0020	0.0020	7662882
Dissolved Phosphorus (P)	ug/L	<100	<100	<100	100	7672354
Total Phosphorus (P)	mg/L	0.14	<0.10	<0.10	0.10	7662882
Dissolved Potassium (K)	ug/L	310	500	340	100	7672354
Total Potassium (K)	mg/L	0.43	0.51	0.32	0.10	7662882
Dissolved Selenium (Se)	ug/L	<0.50	<0.50	<0.50	0.50	7672354
Total Selenium (Se)	mg/L	<0.00050	<0.00050	<0.00050	0.00050	7662882
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	0.10	7672354
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	7662882
Dissolved Sodium (Na)	ug/L	4600	4700	4000	100	7672354
Total Sodium (Na)	mg/L	4.87	5.10	4.17	0.10	7662882
Dissolved Strontium (Sr)	ug/L	6.4	9.6	7.4	2.0	7672354
Total Strontium (Sr)	mg/L	0.0074	0.0099	0.0080	0.0020	7662882
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	0.10	7672354
Total Thallium (Tl)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	7662882
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	2.0	7672354
Total Tin (Sn)	mg/L	<0.0020	<0.0020	<0.0020	0.0020	7662882
Dissolved Titanium (Ti)	ug/L	6.0	7.6	3.6	2.0	7672354
Total Titanium (Ti)	mg/L	0.0122	0.0142	0.0056	0.0020	7662882
Dissolved Uranium (U)	ug/L	<0.10	<0.10	<0.10	0.10	7672354
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	7662882
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	<2.0	2.0	7672354
Total Vanadium (V)	mg/L	<0.0020	<0.0020	<0.0020	0.0020	7662882
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	5.0	7672354
Total Zinc (Zn)	mg/L	<0.0050	<0.0050	<0.0050	0.0050	7662882
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	15.0°C
Package 2	15.0°C

Sample RAP139 [SW-11-21] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent. RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RAP140 [SW-12-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RAP141 [SW-13-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RAP142 [SW-14-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RAP143 [SW-15-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RAP144 [SW-16-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RAP145 [SW-17-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RAP146 [SW-18-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RAP147 [SW-19-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RAP148 [SW-20-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RAP198 [SWDUPA] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Results relate only to the items tested.



Bureau Veritas Job #: C1V1420
Report Date: 2021/11/10

Anaconda Mining Inc
Your P.O. #: 0267
Sampler Initials: DB

QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7662868	BAN	Matrix Spike	Total Aluminum (Al)	2021/10/27	106	%	80 - 120		
			Total Antimony (Sb)	2021/10/27	106	%	80 - 120		
			Total Arsenic (As)	2021/10/27	95	%	80 - 120		
			Total Barium (Ba)	2021/10/27	101	%	80 - 120		
			Total Beryllium (Be)	2021/10/27	96	%	80 - 120		
			Total Bismuth (Bi)	2021/10/27	101	%	80 - 120		
			Total Boron (B)	2021/10/27	98	%	80 - 120		
			Total Cadmium (Cd)	2021/10/27	100	%	80 - 120		
			Total Calcium (Ca)	2021/10/27	104	%	80 - 120		
			Total Chromium (Cr)	2021/10/27	98	%	80 - 120		
			Total Cobalt (Co)	2021/10/27	96	%	80 - 120		
			Total Copper (Cu)	2021/10/27	98	%	80 - 120		
			Total Iron (Fe)	2021/10/27	107	%	80 - 120		
			Total Lead (Pb)	2021/10/27	102	%	80 - 120		
			Total Magnesium (Mg)	2021/10/27	107	%	80 - 120		
			Total Manganese (Mn)	2021/10/27	NC	%	80 - 120		
			Total Molybdenum (Mo)	2021/10/27	102	%	80 - 120		
			Total Nickel (Ni)	2021/10/27	99	%	80 - 120		
			Total Phosphorus (P)	2021/10/27	108	%	80 - 120		
			Total Potassium (K)	2021/10/27	101	%	80 - 120		
			Total Selenium (Se)	2021/10/27	102	%	80 - 120		
			Total Silver (Ag)	2021/10/27	99	%	80 - 120		
			Total Sodium (Na)	2021/10/27	103	%	80 - 120		
			Total Strontium (Sr)	2021/10/27	103	%	80 - 120		
			Total Thallium (Tl)	2021/10/27	102	%	80 - 120		
			Total Tin (Sn)	2021/10/27	105	%	80 - 120		
			Total Titanium (Ti)	2021/10/27	100	%	80 - 120		
			Total Uranium (U)	2021/10/27	105	%	80 - 120		
			Total Vanadium (V)	2021/10/27	100	%	80 - 120		
			Total Zinc (Zn)	2021/10/27	95	%	80 - 120		
7662868	BAN	Spiked Blank	Total Aluminum (Al)	2021/10/27	102	%	80 - 120		
			Total Antimony (Sb)	2021/10/27	103	%	80 - 120		
			Total Arsenic (As)	2021/10/27	92	%	80 - 120		
			Total Barium (Ba)	2021/10/27	95	%	80 - 120		
			Total Beryllium (Be)	2021/10/27	95	%	80 - 120		
			Total Bismuth (Bi)	2021/10/27	97	%	80 - 120		
			Total Boron (B)	2021/10/27	100	%	80 - 120		
			Total Cadmium (Cd)	2021/10/27	96	%	80 - 120		
			Total Calcium (Ca)	2021/10/27	102	%	80 - 120		
			Total Chromium (Cr)	2021/10/27	95	%	80 - 120		
			Total Cobalt (Co)	2021/10/27	94	%	80 - 120		
			Total Copper (Cu)	2021/10/27	96	%	80 - 120		
			Total Iron (Fe)	2021/10/27	103	%	80 - 120		
			Total Lead (Pb)	2021/10/27	99	%	80 - 120		
			Total Magnesium (Mg)	2021/10/27	103	%	80 - 120		
			Total Manganese (Mn)	2021/10/27	98	%	80 - 120		
			Total Molybdenum (Mo)	2021/10/27	99	%	80 - 120		
			Total Nickel (Ni)	2021/10/27	97	%	80 - 120		
			Total Phosphorus (P)	2021/10/27	105	%	80 - 120		
			Total Potassium (K)	2021/10/27	99	%	80 - 120		
			Total Selenium (Se)	2021/10/27	99	%	80 - 120		
			Total Silver (Ag)	2021/10/27	97	%	80 - 120		
			Total Sodium (Na)	2021/10/27	99	%	80 - 120		
			Total Strontium (Sr)	2021/10/27	97	%	80 - 120		



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7662868	BAN	Method Blank	Total Thallium (Tl)	2021/10/27		98	%	80 - 120
			Total Tin (Sn)	2021/10/27		102	%	80 - 120
			Total Titanium (Ti)	2021/10/27		99	%	80 - 120
			Total Uranium (U)	2021/10/27		100	%	80 - 120
			Total Vanadium (V)	2021/10/27		98	%	80 - 120
			Total Zinc (Zn)	2021/10/27		94	%	80 - 120
			Total Aluminum (Al)	2021/10/27	<0.0050		mg/L	
			Total Antimony (Sb)	2021/10/27	<0.0010		mg/L	
			Total Arsenic (As)	2021/10/27	<0.0010		mg/L	
			Total Barium (Ba)	2021/10/27	<0.0010		mg/L	
			Total Beryllium (Be)	2021/10/27	<0.00010		mg/L	
			Total Bismuth (Bi)	2021/10/27	<0.0020		mg/L	
			Total Boron (B)	2021/10/27	<0.050		mg/L	
			Total Cadmium (Cd)	2021/10/27	<0.000010		mg/L	
			Total Calcium (Ca)	2021/10/27	<0.10		mg/L	
			Total Chromium (Cr)	2021/10/27	<0.0010		mg/L	
			Total Cobalt (Co)	2021/10/27	<0.00040		mg/L	
			Total Copper (Cu)	2021/10/27	<0.00050		mg/L	
			Total Iron (Fe)	2021/10/27	<0.050		mg/L	
			Total Lead (Pb)	2021/10/27	<0.00050		mg/L	
			Total Magnesium (Mg)	2021/10/27	<0.10		mg/L	
			Total Manganese (Mn)	2021/10/27	<0.0020		mg/L	
			Total Molybdenum (Mo)	2021/10/27	<0.0020		mg/L	
			Total Nickel (Ni)	2021/10/27	<0.0020		mg/L	
			Total Phosphorus (P)	2021/10/27	<0.10		mg/L	
			Total Potassium (K)	2021/10/27	<0.10		mg/L	
			Total Selenium (Se)	2021/10/27	<0.00050		mg/L	
			Total Silver (Ag)	2021/10/27	<0.00010		mg/L	
			Total Sodium (Na)	2021/10/27	<0.10		mg/L	
			Total Strontium (Sr)	2021/10/27	<0.0020		mg/L	
			Total Thallium (Tl)	2021/10/27	<0.00010		mg/L	
			Total Tin (Sn)	2021/10/27	<0.0020		mg/L	
			Total Titanium (Ti)	2021/10/27	<0.0020		mg/L	
			Total Uranium (U)	2021/10/27	<0.00010		mg/L	
			Total Vanadium (V)	2021/10/27	<0.0020		mg/L	
			Total Zinc (Zn)	2021/10/27	<0.0050		mg/L	
7662868	BAN	RPD	Total Aluminum (Al)	2021/10/28	1.4		%	20
			Total Antimony (Sb)	2021/10/28	NC		%	20
			Total Arsenic (As)	2021/10/28	NC		%	20
			Total Barium (Ba)	2021/10/28	0.45		%	20
			Total Beryllium (Be)	2021/10/28	NC		%	20
			Total Bismuth (Bi)	2021/10/28	NC		%	20
			Total Boron (B)	2021/10/28	NC		%	20
			Total Cadmium (Cd)	2021/10/28	NC (1)		%	20
			Total Calcium (Ca)	2021/10/28	1.8		%	20
			Total Chromium (Cr)	2021/10/28	0.47		%	20
			Total Cobalt (Co)	2021/10/28	NC		%	20
			Total Copper (Cu)	2021/10/28	4.2		%	20
			Total Iron (Fe)	2021/10/28	NC		%	20
			Total Lead (Pb)	2021/10/28	NC		%	20
			Total Magnesium (Mg)	2021/10/28	1.4		%	20
			Total Manganese (Mn)	2021/10/28	NC		%	20
			Total Molybdenum (Mo)	2021/10/28	1.0		%	20
			Total Nickel (Ni)	2021/10/28	NC		%	20



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7662882	BAN	Matrix Spike		Total Phosphorus (P)	2021/10/28	NC		%	20
				Total Potassium (K)	2021/10/28	0.29		%	20
				Total Selenium (Se)	2021/10/28	4.8		%	20
				Total Silver (Ag)	2021/10/28	NC		%	20
				Total Sodium (Na)	2021/10/28	0.81		%	20
				Total Strontium (Sr)	2021/10/28	0.14		%	20
				Total Thallium (Tl)	2021/10/28	NC		%	20
				Total Tin (Sn)	2021/10/28	NC		%	20
				Total Titanium (Ti)	2021/10/28	NC		%	20
				Total Uranium (U)	2021/10/28	NC		%	20
				Total Vanadium (V)	2021/10/28	0.24		%	20
				Total Zinc (Zn)	2021/10/28	NC		%	20
				Total Aluminum (Al)	2021/10/27		98	%	80 - 120
				Total Antimony (Sb)	2021/10/27		104	%	80 - 120
				Total Arsenic (As)	2021/10/27		99	%	80 - 120
				Total Barium (Ba)	2021/10/27		96	%	80 - 120
				Total Beryllium (Be)	2021/10/27		111	%	80 - 120
				Total Bismuth (Bi)	2021/10/27		99	%	80 - 120
				Total Boron (B)	2021/10/27		110	%	80 - 120
				Total Cadmium (Cd)	2021/10/27		103	%	80 - 120
				Total Calcium (Ca)	2021/10/27		NC	%	80 - 120
				Total Chromium (Cr)	2021/10/27		103	%	80 - 120
				Total Cobalt (Co)	2021/10/27		103	%	80 - 120
				Total Copper (Cu)	2021/10/27		101	%	80 - 120
				Total Iron (Fe)	2021/10/27		NC	%	80 - 120
				Total Lead (Pb)	2021/10/27		98	%	80 - 120
				Total Magnesium (Mg)	2021/10/27		NC	%	80 - 120
				Total Manganese (Mn)	2021/10/27		NC	%	80 - 120
				Total Molybdenum (Mo)	2021/10/27		107	%	80 - 120
				Total Nickel (Ni)	2021/10/27		102	%	80 - 120
				Total Phosphorus (P)	2021/10/27		109	%	80 - 120
				Total Potassium (K)	2021/10/27		NC	%	80 - 120
				Total Selenium (Se)	2021/10/27		106	%	80 - 120
				Total Silver (Ag)	2021/10/27		101	%	80 - 120
				Total Sodium (Na)	2021/10/27		NC	%	80 - 120
				Total Strontium (Sr)	2021/10/27		NC	%	80 - 120
				Total Thallium (Tl)	2021/10/27		99	%	80 - 120
				Total Tin (Sn)	2021/10/27		103	%	80 - 120
				Total Titanium (Ti)	2021/10/27		104	%	80 - 120
				Total Uranium (U)	2021/10/27		105	%	80 - 120
				Total Vanadium (V)	2021/10/27		105	%	80 - 120
				Total Zinc (Zn)	2021/10/27		98	%	80 - 120
7662882	BAN	Spiked Blank		Total Aluminum (Al)	2021/10/27		102	%	80 - 120
				Total Antimony (Sb)	2021/10/27		99	%	80 - 120
				Total Arsenic (As)	2021/10/27		96	%	80 - 120
				Total Barium (Ba)	2021/10/27		94	%	80 - 120
				Total Beryllium (Be)	2021/10/27		102	%	80 - 120
				Total Bismuth (Bi)	2021/10/27		101	%	80 - 120
				Total Boron (B)	2021/10/27		107	%	80 - 120
				Total Cadmium (Cd)	2021/10/27		98	%	80 - 120
				Total Calcium (Ca)	2021/10/27		101	%	80 - 120
				Total Chromium (Cr)	2021/10/27		101	%	80 - 120
				Total Cobalt (Co)	2021/10/27		102	%	80 - 120
				Total Copper (Cu)	2021/10/27		105	%	80 - 120



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7662882	BAN	Method Blank	Total Iron (Fe)	2021/10/27		106	%	80 - 120
			Total Lead (Pb)	2021/10/27		100	%	80 - 120
			Total Magnesium (Mg)	2021/10/27		110	%	80 - 120
			Total Manganese (Mn)	2021/10/27		103	%	80 - 120
			Total Molybdenum (Mo)	2021/10/27		103	%	80 - 120
			Total Nickel (Ni)	2021/10/27		104	%	80 - 120
			Total Phosphorus (P)	2021/10/27		108	%	80 - 120
			Total Potassium (K)	2021/10/27		106	%	80 - 120
			Total Selenium (Se)	2021/10/27		102	%	80 - 120
			Total Silver (Ag)	2021/10/27		99	%	80 - 120
			Total Sodium (Na)	2021/10/27		106	%	80 - 120
			Total Strontium (Sr)	2021/10/27		99	%	80 - 120
			Total Thallium (Tl)	2021/10/27		101	%	80 - 120
			Total Tin (Sn)	2021/10/27		100	%	80 - 120
			Total Titanium (Ti)	2021/10/27		102	%	80 - 120
			Total Uranium (U)	2021/10/27		105	%	80 - 120
			Total Vanadium (V)	2021/10/27		103	%	80 - 120
			Total Zinc (Zn)	2021/10/27		102	%	80 - 120
			Total Aluminum (Al)	2021/10/27	<0.0050		mg/L	
			Total Antimony (Sb)	2021/10/27	<0.0010		mg/L	
			Total Arsenic (As)	2021/10/27	<0.0010		mg/L	
			Total Barium (Ba)	2021/10/27	<0.0010		mg/L	
			Total Beryllium (Be)	2021/10/27	<0.00010		mg/L	
			Total Bismuth (Bi)	2021/10/27	<0.0020		mg/L	
			Total Boron (B)	2021/10/27	<0.050		mg/L	
			Total Cadmium (Cd)	2021/10/27	<0.000010		mg/L	
			Total Calcium (Ca)	2021/10/27	<0.10		mg/L	
			Total Chromium (Cr)	2021/10/27	<0.0010		mg/L	
			Total Cobalt (Co)	2021/10/27	<0.00040		mg/L	
			Total Copper (Cu)	2021/10/27	<0.00050		mg/L	
			Total Iron (Fe)	2021/10/27	<0.050		mg/L	
			Total Lead (Pb)	2021/10/27	<0.00050		mg/L	
			Total Magnesium (Mg)	2021/10/27	<0.10		mg/L	
			Total Manganese (Mn)	2021/10/27	<0.0020		mg/L	
			Total Molybdenum (Mo)	2021/10/27	<0.0020		mg/L	
			Total Nickel (Ni)	2021/10/27	<0.0020		mg/L	
			Total Phosphorus (P)	2021/10/27	<0.10		mg/L	
			Total Potassium (K)	2021/10/27	<0.10		mg/L	
			Total Selenium (Se)	2021/10/27	<0.00050		mg/L	
			Total Silver (Ag)	2021/10/27	<0.00010		mg/L	
			Total Sodium (Na)	2021/10/27	<0.10		mg/L	
			Total Strontium (Sr)	2021/10/27	<0.0020		mg/L	
			Total Thallium (Tl)	2021/10/27	<0.00010		mg/L	
			Total Tin (Sn)	2021/10/27	<0.0020		mg/L	
			Total Titanium (Ti)	2021/10/27	<0.0020		mg/L	
			Total Uranium (U)	2021/10/27	<0.00010		mg/L	
			Total Vanadium (V)	2021/10/27	<0.0020		mg/L	
			Total Zinc (Zn)	2021/10/27	<0.0050		mg/L	
7662882	BAN	RPD	Total Aluminum (Al)	2021/10/27	2.4		%	20
			Total Antimony (Sb)	2021/10/27	NC		%	20
			Total Arsenic (As)	2021/10/27	5.1		%	20
			Total Barium (Ba)	2021/10/27	0.87		%	20
			Total Beryllium (Be)	2021/10/27	7.8		%	20
			Total Bismuth (Bi)	2021/10/27	NC		%	20



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			Total Boron (B)	2021/10/27	NC		%	20
			Total Cadmium (Cd)	2021/10/27	NC		%	20
			Total Calcium (Ca)	2021/10/27	3.2		%	20
			Total Chromium (Cr)	2021/10/27	NC		%	20
			Total Cobalt (Co)	2021/10/27	0.21		%	20
			Total Copper (Cu)	2021/10/27	0.60		%	20
			Total Iron (Fe)	2021/10/27	0.10		%	20
			Total Lead (Pb)	2021/10/27	NC		%	20
			Total Magnesium (Mg)	2021/10/27	0.078		%	20
			Total Manganese (Mn)	2021/10/27	0.38		%	20
			Total Molybdenum (Mo)	2021/10/27	NC		%	20
			Total Nickel (Ni)	2021/10/27	0.93		%	20
			Total Phosphorus (P)	2021/10/27	NC		%	20
			Total Potassium (K)	2021/10/27	1.2		%	20
			Total Selenium (Se)	2021/10/27	NC		%	20
			Total Silver (Ag)	2021/10/27	NC		%	20
			Total Sodium (Na)	2021/10/27	0.34		%	20
			Total Strontium (Sr)	2021/10/27	0.13		%	20
			Total Thallium (Tl)	2021/10/27	NC		%	20
			Total Tin (Sn)	2021/10/27	NC		%	20
			Total Titanium (Ti)	2021/10/27	NC		%	20
			Total Uranium (U)	2021/10/27	NC		%	20
			Total Vanadium (V)	2021/10/27	NC		%	20
			Total Zinc (Zn)	2021/10/27	0.63		%	20
7663284	NHU	Matrix Spike	Dissolved Mercury (Hg)	2021/10/28		96	%	80 - 120
7663284	NHU	Spiked Blank	Dissolved Mercury (Hg)	2021/10/28		98	%	80 - 120
7663284	NHU	Method Blank	Dissolved Mercury (Hg)	2021/10/28	<0.013		ug/L	
7663284	NHU	RPD	Dissolved Mercury (Hg)	2021/10/28	NC		%	20
7665605	NGI	Matrix Spike	Total Organic Carbon (C)	2021/10/28		91	%	85 - 115
7665605	NGI	Spiked Blank	Total Organic Carbon (C)	2021/10/28		98	%	80 - 120
7665605	NGI	Method Blank	Total Organic Carbon (C)	2021/10/28	<0.50		mg/L	
7665605	NGI	RPD	Total Organic Carbon (C)	2021/10/28	8.3		%	15
7665613	NGI	Matrix Spike	Total Organic Carbon (C)	2021/10/29		91	%	85 - 115
7665613	NGI	Spiked Blank	Total Organic Carbon (C)	2021/10/29		98	%	80 - 120
7665613	NGI	Method Blank	Total Organic Carbon (C)	2021/10/29	<0.50		mg/L	
7665613	NGI	RPD	Total Organic Carbon (C)	2021/10/29	2.7		%	15
7666027	MLB	Matrix Spike [RAP140-08]	Dissolved Aluminum (Al)	2021/10/28		101	%	80 - 120
			Dissolved Antimony (Sb)	2021/10/28		99	%	80 - 120
			Dissolved Arsenic (As)	2021/10/28		95	%	80 - 120
			Dissolved Barium (Ba)	2021/10/28		97	%	80 - 120
			Dissolved Beryllium (Be)	2021/10/28		100	%	80 - 120
			Dissolved Bismuth (Bi)	2021/10/28		93	%	80 - 120
			Dissolved Boron (B)	2021/10/28		98	%	80 - 120
			Dissolved Cadmium (Cd)	2021/10/28		96	%	80 - 120
			Dissolved Calcium (Ca)	2021/10/28		104	%	80 - 120
			Dissolved Chromium (Cr)	2021/10/28		98	%	80 - 120
			Dissolved Cobalt (Co)	2021/10/28		99	%	80 - 120
			Dissolved Copper (Cu)	2021/10/28		99	%	80 - 120
			Dissolved Iron (Fe)	2021/10/28		101	%	80 - 120
			Dissolved Lead (Pb)	2021/10/28		96	%	80 - 120
			Dissolved Magnesium (Mg)	2021/10/28		105	%	80 - 120
			Dissolved Manganese (Mn)	2021/10/28		99	%	80 - 120
			Dissolved Molybdenum (Mo)	2021/10/28		101	%	80 - 120
			Dissolved Nickel (Ni)	2021/10/28		100	%	80 - 120



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7666027	MLB	Spiked Blank		Dissolved Phosphorus (P)	2021/10/28		105	%	80 - 120
				Dissolved Potassium (K)	2021/10/28		105	%	80 - 120
				Dissolved Selenium (Se)	2021/10/28		100	%	80 - 120
				Dissolved Silver (Ag)	2021/10/28		97	%	80 - 120
				Dissolved Sodium (Na)	2021/10/28		102	%	80 - 120
				Dissolved Strontium (Sr)	2021/10/28		99	%	80 - 120
				Dissolved Thallium (Tl)	2021/10/28		98	%	80 - 120
				Dissolved Tin (Sn)	2021/10/28		98	%	80 - 120
				Dissolved Titanium (Ti)	2021/10/28		102	%	80 - 120
				Dissolved Uranium (U)	2021/10/28		100	%	80 - 120
				Dissolved Vanadium (V)	2021/10/28		100	%	80 - 120
				Dissolved Zinc (Zn)	2021/10/28		100	%	80 - 120
				Dissolved Aluminum (Al)	2021/10/28		100	%	80 - 120
				Dissolved Antimony (Sb)	2021/10/28		100	%	80 - 120
				Dissolved Arsenic (As)	2021/10/28		94	%	80 - 120
				Dissolved Barium (Ba)	2021/10/28		95	%	80 - 120
				Dissolved Beryllium (Be)	2021/10/28		98	%	80 - 120
				Dissolved Bismuth (Bi)	2021/10/28		98	%	80 - 120
				Dissolved Boron (B)	2021/10/28		97	%	80 - 120
				Dissolved Cadmium (Cd)	2021/10/28		96	%	80 - 120
				Dissolved Calcium (Ca)	2021/10/28		102	%	80 - 120
				Dissolved Chromium (Cr)	2021/10/28		97	%	80 - 120
				Dissolved Cobalt (Co)	2021/10/28		98	%	80 - 120
				Dissolved Copper (Cu)	2021/10/28		99	%	80 - 120
				Dissolved Iron (Fe)	2021/10/28		103	%	80 - 120
				Dissolved Lead (Pb)	2021/10/28		96	%	80 - 120
				Dissolved Magnesium (Mg)	2021/10/28		107	%	80 - 120
				Dissolved Manganese (Mn)	2021/10/28		99	%	80 - 120
				Dissolved Molybdenum (Mo)	2021/10/28		102	%	80 - 120
				Dissolved Nickel (Ni)	2021/10/28		100	%	80 - 120
				Dissolved Phosphorus (P)	2021/10/28		104	%	80 - 120
				Dissolved Potassium (K)	2021/10/28		103	%	80 - 120
				Dissolved Selenium (Se)	2021/10/28		101	%	80 - 120
				Dissolved Silver (Ag)	2021/10/28		97	%	80 - 120
				Dissolved Sodium (Na)	2021/10/28		104	%	80 - 120
				Dissolved Strontium (Sr)	2021/10/28		97	%	80 - 120
				Dissolved Thallium (Tl)	2021/10/28		98	%	80 - 120
				Dissolved Tin (Sn)	2021/10/28		99	%	80 - 120
				Dissolved Titanium (Ti)	2021/10/28		101	%	80 - 120
				Dissolved Uranium (U)	2021/10/28		100	%	80 - 120
				Dissolved Vanadium (V)	2021/10/28		99	%	80 - 120
				Dissolved Zinc (Zn)	2021/10/28		103	%	80 - 120
7666027	MLB	Method Blank		Dissolved Aluminum (Al)	2021/10/28	<5.0		ug/L	
				Dissolved Antimony (Sb)	2021/10/28	<1.0		ug/L	
				Dissolved Arsenic (As)	2021/10/28	<1.0		ug/L	
				Dissolved Barium (Ba)	2021/10/28	<1.0		ug/L	
				Dissolved Beryllium (Be)	2021/10/28	<0.10		ug/L	
				Dissolved Bismuth (Bi)	2021/10/28	<2.0		ug/L	
				Dissolved Boron (B)	2021/10/28	<50		ug/L	
				Dissolved Cadmium (Cd)	2021/10/28	<0.010		ug/L	
				Dissolved Calcium (Ca)	2021/10/28	<100		ug/L	
				Dissolved Chromium (Cr)	2021/10/28	<1.0		ug/L	
				Dissolved Cobalt (Co)	2021/10/28	<0.40		ug/L	
				Dissolved Copper (Cu)	2021/10/28	<0.50		ug/L	



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7666027	MLB	RPD [RAP140-08]	Dissolved Iron (Fe)	2021/10/28	<50		ug/L	
			Dissolved Lead (Pb)	2021/10/28	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2021/10/28	<100		ug/L	
			Dissolved Manganese (Mn)	2021/10/28	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2021/10/28	<2.0		ug/L	
			Dissolved Nickel (Ni)	2021/10/28	<2.0		ug/L	
			Dissolved Phosphorus (P)	2021/10/28	<100		ug/L	
			Dissolved Potassium (K)	2021/10/28	<100		ug/L	
			Dissolved Selenium (Se)	2021/10/28	<0.50		ug/L	
			Dissolved Silver (Ag)	2021/10/28	<0.10		ug/L	
			Dissolved Sodium (Na)	2021/10/28	<100		ug/L	
			Dissolved Strontium (Sr)	2021/10/28	<2.0		ug/L	
			Dissolved Thallium (Tl)	2021/10/28	<0.10		ug/L	
			Dissolved Tin (Sn)	2021/10/28	<2.0		ug/L	
			Dissolved Titanium (Ti)	2021/10/28	<2.0		ug/L	
			Dissolved Uranium (U)	2021/10/28	<0.10		ug/L	
			Dissolved Vanadium (V)	2021/10/28	<2.0		ug/L	
			Dissolved Zinc (Zn)	2021/10/28	<5.0		ug/L	
			Dissolved Aluminum (Al)	2021/10/28	4.3		%	20
			Dissolved Antimony (Sb)	2021/10/28	NC		%	20
			Dissolved Arsenic (As)	2021/10/28	2.0		%	20
			Dissolved Barium (Ba)	2021/10/28	2.9		%	20
			Dissolved Beryllium (Be)	2021/10/28	NC		%	20
			Dissolved Bismuth (Bi)	2021/10/28	NC		%	20
			Dissolved Boron (B)	2021/10/28	NC		%	20
			Dissolved Cadmium (Cd)	2021/10/28	0.052		%	20
			Dissolved Calcium (Ca)	2021/10/28	1.1		%	20
			Dissolved Chromium (Cr)	2021/10/28	NC		%	20
			Dissolved Cobalt (Co)	2021/10/28	NC		%	20
			Dissolved Copper (Cu)	2021/10/28	NC		%	20
			Dissolved Iron (Fe)	2021/10/28	1.8		%	20
			Dissolved Lead (Pb)	2021/10/28	5.3		%	20
			Dissolved Magnesium (Mg)	2021/10/28	0.41		%	20
			Dissolved Manganese (Mn)	2021/10/28	0.10		%	20
			Dissolved Molybdenum (Mo)	2021/10/28	NC		%	20
			Dissolved Nickel (Ni)	2021/10/28	NC		%	20
			Dissolved Phosphorus (P)	2021/10/28	NC		%	20
			Dissolved Potassium (K)	2021/10/28	4.5		%	20
			Dissolved Selenium (Se)	2021/10/28	NC		%	20
			Dissolved Silver (Ag)	2021/10/28	NC		%	20
			Dissolved Sodium (Na)	2021/10/28	1.7		%	20
			Dissolved Strontium (Sr)	2021/10/28	3.9		%	20
			Dissolved Thallium (Tl)	2021/10/28	NC		%	20
			Dissolved Tin (Sn)	2021/10/28	NC		%	20
			Dissolved Titanium (Ti)	2021/10/28	5.2		%	20
			Dissolved Uranium (U)	2021/10/28	NC		%	20
			Dissolved Vanadium (V)	2021/10/28	NC		%	20
			Dissolved Zinc (Zn)	2021/10/28	NC		%	20
7666442	NHU	Matrix Spike	Total Mercury (Hg)	2021/10/29		100	%	80 - 120
7666442	NHU	Spiked Blank	Total Mercury (Hg)	2021/10/29		101	%	80 - 120
7666442	NHU	Method Blank	Total Mercury (Hg)	2021/10/29	<0.013		ug/L	
7666442	NHU	RPD	Total Mercury (Hg)	2021/10/29	NC		%	20
7666509	NHU	Matrix Spike [RAP141-05]	Dissolved Mercury (Hg)	2021/10/29		97	%	80 - 120
7666509	NHU	Spiked Blank	Dissolved Mercury (Hg)	2021/10/29		97	%	80 - 120



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7666509	NHU	Method Blank	Dissolved Mercury (Hg)	2021/10/29	<0.013		ug/L	
7666509	NHU	RPD [RAP141-05]	Dissolved Mercury (Hg)	2021/10/29	NC		%	20
7668338	SHW	Spiked Blank	Conductivity	2021/10/29		101	%	80 - 120
7668338	SHW	Method Blank	Conductivity	2021/10/29	<1.0		uS/cm	
7668338	SHW	RPD	Conductivity	2021/10/29	3.2		%	10
7668340	SHW	Spiked Blank	pH	2021/10/29		100	%	97 - 103
7668340	SHW	RPD	pH	2021/10/29	1.5		%	N/A
7668341	SHW	Spiked Blank	Conductivity	2021/10/29		101	%	80 - 120
7668341	SHW	Method Blank	Conductivity	2021/10/29	<1.0		uS/cm	
7668341	SHW	RPD [RAP140-01]	Conductivity	2021/10/29	1.5		%	10
7668345	SHW	Spiked Blank	pH	2021/10/29		100	%	97 - 103
7668345	SHW	RPD [RAP140-01]	pH	2021/10/29	3.5		%	N/A
7668388	SHW	QC Standard	Turbidity	2021/10/29		96	%	80 - 120
7668388	SHW	Spiked Blank	Turbidity	2021/10/29		100	%	80 - 120
7668388	SHW	Method Blank	Turbidity	2021/10/29	<0.10		NTU	
7668388	SHW	RPD	Turbidity	2021/10/29	NC		%	20
7668391	SHW	QC Standard	Turbidity	2021/10/29		97	%	80 - 120
7668391	SHW	Spiked Blank	Turbidity	2021/10/29		101	%	80 - 120
7668391	SHW	Method Blank	Turbidity	2021/10/29	<0.10		NTU	
7668391	SHW	RPD [RAP143-01]	Turbidity	2021/10/29	19		%	20
7668461	NGI	Matrix Spike	Total Organic Carbon (C)	2021/11/01		91	%	85 - 115
7668461	NGI	Spiked Blank	Total Organic Carbon (C)	2021/11/01		98	%	80 - 120
7668461	NGI	Method Blank	Total Organic Carbon (C)	2021/11/01	<0.50		mg/L	
7668461	NGI	RPD	Total Organic Carbon (C)	2021/11/01	0.80		%	15
7668470	NGI	Matrix Spike	Total Organic Carbon (C)	2021/11/01		90	%	85 - 115
7668470	NGI	Spiked Blank	Total Organic Carbon (C)	2021/11/01		99	%	80 - 120
7668470	NGI	Method Blank	Total Organic Carbon (C)	2021/11/01	<0.50		mg/L	
7668470	NGI	RPD	Total Organic Carbon (C)	2021/11/01	0.31		%	15
7672354	BAN	Matrix Spike	Dissolved Aluminum (Al)	2021/11/01		102	%	80 - 120
			Dissolved Antimony (Sb)	2021/11/01		97	%	80 - 120
			Dissolved Arsenic (As)	2021/11/01		95	%	80 - 120
			Dissolved Barium (Ba)	2021/11/01		97	%	80 - 120
			Dissolved Beryllium (Be)	2021/11/01		99	%	80 - 120
			Dissolved Bismuth (Bi)	2021/11/01		100	%	80 - 120
			Dissolved Boron (B)	2021/11/01		99	%	80 - 120
			Dissolved Cadmium (Cd)	2021/11/01		96	%	80 - 120
			Dissolved Calcium (Ca)	2021/11/01		101	%	80 - 120
			Dissolved Chromium (Cr)	2021/11/01		98	%	80 - 120
			Dissolved Cobalt (Co)	2021/11/01		97	%	80 - 120
			Dissolved Copper (Cu)	2021/11/01		98	%	80 - 120
			Dissolved Iron (Fe)	2021/11/01		100	%	80 - 120
			Dissolved Lead (Pb)	2021/11/01		98	%	80 - 120
			Dissolved Magnesium (Mg)	2021/11/01		101	%	80 - 120
			Dissolved Manganese (Mn)	2021/11/01		100	%	80 - 120
			Dissolved Molybdenum (Mo)	2021/11/01		101	%	80 - 120
			Dissolved Nickel (Ni)	2021/11/01		99	%	80 - 120
			Dissolved Phosphorus (P)	2021/11/01		103	%	80 - 120
			Dissolved Potassium (K)	2021/11/01		101	%	80 - 120
			Dissolved Selenium (Se)	2021/11/01		97	%	80 - 120
			Dissolved Silver (Ag)	2021/11/01		96	%	80 - 120
			Dissolved Sodium (Na)	2021/11/01		98	%	80 - 120
			Dissolved Strontium (Sr)	2021/11/01		97	%	80 - 120
			Dissolved Thallium (Tl)	2021/11/01		100	%	80 - 120
			Dissolved Tin (Sn)	2021/11/01		101	%	80 - 120



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7672354	BAN	Spiked Blank	Dissolved Titanium (Ti)	2021/11/01		102	%	80 - 120
			Dissolved Uranium (U)	2021/11/01		106	%	80 - 120
			Dissolved Vanadium (V)	2021/11/01		100	%	80 - 120
			Dissolved Zinc (Zn)	2021/11/01		99	%	80 - 120
			Dissolved Aluminum (Al)	2021/11/01		104	%	80 - 120
			Dissolved Antimony (Sb)	2021/11/01		103	%	80 - 120
			Dissolved Arsenic (As)	2021/11/01		94	%	80 - 120
			Dissolved Barium (Ba)	2021/11/01		98	%	80 - 120
			Dissolved Beryllium (Be)	2021/11/01		98	%	80 - 120
			Dissolved Bismuth (Bi)	2021/11/01		103	%	80 - 120
			Dissolved Boron (B)	2021/11/01		101	%	80 - 120
			Dissolved Cadmium (Cd)	2021/11/01		96	%	80 - 120
			Dissolved Calcium (Ca)	2021/11/01		103	%	80 - 120
			Dissolved Chromium (Cr)	2021/11/01		97	%	80 - 120
			Dissolved Cobalt (Co)	2021/11/01		96	%	80 - 120
			Dissolved Copper (Cu)	2021/11/01		97	%	80 - 120
			Dissolved Iron (Fe)	2021/11/01		101	%	80 - 120
			Dissolved Lead (Pb)	2021/11/01		100	%	80 - 120
			Dissolved Magnesium (Mg)	2021/11/01		103	%	80 - 120
			Dissolved Manganese (Mn)	2021/11/01		100	%	80 - 120
			Dissolved Molybdenum (Mo)	2021/11/01		101	%	80 - 120
			Dissolved Nickel (Ni)	2021/11/01		97	%	80 - 120
			Dissolved Phosphorus (P)	2021/11/01		103	%	80 - 120
			Dissolved Potassium (K)	2021/11/01		100	%	80 - 120
			Dissolved Selenium (Se)	2021/11/01		95	%	80 - 120
			Dissolved Silver (Ag)	2021/11/01		98	%	80 - 120
			Dissolved Sodium (Na)	2021/11/01		98	%	80 - 120
			Dissolved Strontium (Sr)	2021/11/01		98	%	80 - 120
			Dissolved Thallium (Tl)	2021/11/01		101	%	80 - 120
			Dissolved Tin (Sn)	2021/11/01		102	%	80 - 120
			Dissolved Titanium (Ti)	2021/11/01		105	%	80 - 120
			Dissolved Uranium (U)	2021/11/01		108	%	80 - 120
			Dissolved Vanadium (V)	2021/11/01		100	%	80 - 120
			Dissolved Zinc (Zn)	2021/11/01		97	%	80 - 120
7672354	BAN	Method Blank	Dissolved Aluminum (Al)	2021/11/01	<5.0		ug/L	
			Dissolved Antimony (Sb)	2021/11/01	<1.0		ug/L	
			Dissolved Arsenic (As)	2021/11/01	<1.0		ug/L	
			Dissolved Barium (Ba)	2021/11/01	<1.0		ug/L	
			Dissolved Beryllium (Be)	2021/11/01	<0.10		ug/L	
			Dissolved Bismuth (Bi)	2021/11/01	<2.0		ug/L	
			Dissolved Boron (B)	2021/11/01	<50		ug/L	
			Dissolved Cadmium (Cd)	2021/11/01	<0.010		ug/L	
			Dissolved Calcium (Ca)	2021/11/01	<100		ug/L	
			Dissolved Chromium (Cr)	2021/11/01	<1.0		ug/L	
			Dissolved Cobalt (Co)	2021/11/01	<0.40		ug/L	
			Dissolved Copper (Cu)	2021/11/01	<0.50		ug/L	
			Dissolved Iron (Fe)	2021/11/01	<50		ug/L	
			Dissolved Lead (Pb)	2021/11/01	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2021/11/01	<100		ug/L	
			Dissolved Manganese (Mn)	2021/11/01	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2021/11/01	<2.0		ug/L	
			Dissolved Nickel (Ni)	2021/11/01	<2.0		ug/L	
			Dissolved Phosphorus (P)	2021/11/01	<100		ug/L	
			Dissolved Potassium (K)	2021/11/01	<100		ug/L	



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7672354	BAN	RPD	Dissolved Selenium (Se)	2021/11/01	<0.50		ug/L	
			Dissolved Silver (Ag)	2021/11/01	<0.10		ug/L	
			Dissolved Sodium (Na)	2021/11/01	<100		ug/L	
			Dissolved Strontium (Sr)	2021/11/01	<2.0		ug/L	
			Dissolved Thallium (Tl)	2021/11/01	<0.10		ug/L	
			Dissolved Tin (Sn)	2021/11/01	<2.0		ug/L	
			Dissolved Titanium (Ti)	2021/11/01	<2.0		ug/L	
			Dissolved Uranium (U)	2021/11/01	<0.10		ug/L	
			Dissolved Vanadium (V)	2021/11/01	<2.0		ug/L	
			Dissolved Zinc (Zn)	2021/11/01	<5.0		ug/L	
			Dissolved Aluminum (Al)	2021/11/01	NC		%	20
			Dissolved Antimony (Sb)	2021/11/01	NC		%	20
			Dissolved Arsenic (As)	2021/11/01	NC		%	20
			Dissolved Barium (Ba)	2021/11/01	NC		%	20
			Dissolved Beryllium (Be)	2021/11/01	NC		%	20
			Dissolved Bismuth (Bi)	2021/11/01	NC		%	20
			Dissolved Boron (B)	2021/11/01	NC		%	20
			Dissolved Cadmium (Cd)	2021/11/01	NC		%	20
			Dissolved Calcium (Ca)	2021/11/01	NC		%	20
			Dissolved Chromium (Cr)	2021/11/01	NC		%	20
			Dissolved Cobalt (Co)	2021/11/01	NC		%	20
			Dissolved Copper (Cu)	2021/11/01	NC		%	20
			Dissolved Iron (Fe)	2021/11/01	NC		%	20
			Dissolved Lead (Pb)	2021/11/01	NC		%	20
			Dissolved Magnesium (Mg)	2021/11/01	NC		%	20
			Dissolved Manganese (Mn)	2021/11/01	NC		%	20
			Dissolved Molybdenum (Mo)	2021/11/01	NC		%	20
			Dissolved Nickel (Ni)	2021/11/01	NC		%	20
			Dissolved Phosphorus (P)	2021/11/01	NC		%	20
			Dissolved Potassium (K)	2021/11/01	NC		%	20
			Dissolved Selenium (Se)	2021/11/01	NC		%	20
			Dissolved Silver (Ag)	2021/11/01	NC		%	20
			Dissolved Sodium (Na)	2021/11/01	NC		%	20
			Dissolved Strontium (Sr)	2021/11/01	NC		%	20
			Dissolved Thallium (Tl)	2021/11/01	NC		%	20
			Dissolved Tin (Sn)	2021/11/01	NC		%	20
			Dissolved Titanium (Ti)	2021/11/01	NC		%	20
			Dissolved Uranium (U)	2021/11/01	NC		%	20
			Dissolved Vanadium (V)	2021/11/01	NC		%	20
			Dissolved Zinc (Zn)	2021/11/01	NC		%	20
7674422	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2021/11/03		107	%	80 - 120
7674422	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2021/11/02		105	%	80 - 120
7674422	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2021/11/02	<0.050		mg/L	
7674422	MCN	RPD	Nitrogen (Ammonia Nitrogen)	2021/11/03	NC		%	20
7676945	EMT	Matrix Spike	Total Alkalinity (Total as CaCO3)	2021/11/04		NC	%	80 - 120
7676945	EMT	Spiked Blank	Total Alkalinity (Total as CaCO3)	2021/11/03		116	%	80 - 120
7676945	EMT	Method Blank	Total Alkalinity (Total as CaCO3)	2021/11/03	<5.0		mg/L	
7676945	EMT	RPD	Total Alkalinity (Total as CaCO3)	2021/11/04	1.0		%	20
7677035	EMT	Matrix Spike	Dissolved Chloride (Cl-)	2021/11/03		92	%	80 - 120
7677035	EMT	Spiked Blank	Dissolved Chloride (Cl-)	2021/11/03		97	%	80 - 120
7677035	EMT	Method Blank	Dissolved Chloride (Cl-)	2021/11/03	<1.0		mg/L	
7677035	EMT	RPD	Dissolved Chloride (Cl-)	2021/11/03	0.24		%	20
7677037	EMT	Matrix Spike	Dissolved Sulphate (SO4)	2021/11/03		95	%	80 - 120
7677037	EMT	Spiked Blank	Dissolved Sulphate (SO4)	2021/11/03		98	%	80 - 120



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7677037	EMT	Method Blank	Dissolved Sulphate (SO ₄)	2021/11/03	<2.0		mg/L	
7677037	EMT	RPD	Dissolved Sulphate (SO ₄)	2021/11/03	2.0		%	20
7677039	EMT	Matrix Spike	Reactive Silica (SiO ₂)	2021/11/03		81	%	80 - 120
7677039	EMT	Spiked Blank	Reactive Silica (SiO ₂)	2021/11/03		95	%	80 - 120
7677039	EMT	Method Blank	Reactive Silica (SiO ₂)	2021/11/03	<0.50		mg/L	
7677039	EMT	RPD	Reactive Silica (SiO ₂)	2021/11/03	0.50		%	20
7677041	EMT	Spiked Blank	Colour	2021/11/03		101	%	80 - 120
7677041	EMT	Method Blank	Colour	2021/11/03	<5.0		TCU	
7677041	EMT	RPD	Colour	2021/11/03	NC		%	20
7677042	EMT	Matrix Spike	Orthophosphate (P)	2021/11/03		94	%	80 - 120
7677042	EMT	Spiked Blank	Orthophosphate (P)	2021/11/03		100	%	80 - 120
7677042	EMT	Method Blank	Orthophosphate (P)	2021/11/03	<0.010		mg/L	
7677042	EMT	RPD	Orthophosphate (P)	2021/11/03	NC		%	20
7677043	EMT	Matrix Spike	Nitrate + Nitrite (N)	2021/11/03		94	%	80 - 120
7677043	EMT	Spiked Blank	Nitrate + Nitrite (N)	2021/11/03		100	%	80 - 120
7677043	EMT	Method Blank	Nitrate + Nitrite (N)	2021/11/03	<0.050		mg/L	
7677043	EMT	RPD	Nitrate + Nitrite (N)	2021/11/03	NC		%	20
7677044	EMT	Matrix Spike	Nitrite (N)	2021/11/03		95	%	80 - 120
7677044	EMT	Spiked Blank	Nitrite (N)	2021/11/03		111	%	80 - 120
7677044	EMT	Method Blank	Nitrite (N)	2021/11/03	<0.010		mg/L	
7677044	EMT	RPD	Nitrite (N)	2021/11/03	NC		%	20
7679930	EMT	Matrix Spike [RAP139-01]	Total Alkalinity (Total as CaCO ₃)	2021/11/04		93	%	80 - 120
7679930	EMT	Spiked Blank	Total Alkalinity (Total as CaCO ₃)	2021/11/04		101	%	80 - 120
7679930	EMT	Method Blank	Total Alkalinity (Total as CaCO ₃)	2021/11/04	<5.0		mg/L	
7679930	EMT	RPD [RAP139-01]	Total Alkalinity (Total as CaCO ₃)	2021/11/04	NC		%	20
7679942	EMT	Matrix Spike [RAP139-01]	Dissolved Chloride (Cl ⁻)	2021/11/05		94	%	80 - 120
7679942	EMT	Spiked Blank	Dissolved Chloride (Cl ⁻)	2021/11/05		97	%	80 - 120
7679942	EMT	Method Blank	Dissolved Chloride (Cl ⁻)	2021/11/05	<1.0		mg/L	
7679942	EMT	RPD [RAP139-01]	Dissolved Chloride (Cl ⁻)	2021/11/05	0.23		%	20
7679943	EMT	Matrix Spike [RAP139-01]	Dissolved Sulphate (SO ₄)	2021/11/04		108	%	80 - 120
7679943	EMT	Spiked Blank	Dissolved Sulphate (SO ₄)	2021/11/04		96	%	80 - 120
7679943	EMT	Method Blank	Dissolved Sulphate (SO ₄)	2021/11/04	<2.0		mg/L	
7679943	EMT	RPD [RAP139-01]	Dissolved Sulphate (SO ₄)	2021/11/04	NC		%	20
7679948	EMT	Matrix Spike [RAP139-01]	Reactive Silica (SiO ₂)	2021/11/05		85	%	80 - 120
7679948	EMT	Spiked Blank	Reactive Silica (SiO ₂)	2021/11/05		92	%	80 - 120
7679948	EMT	Method Blank	Reactive Silica (SiO ₂)	2021/11/05	<0.50		mg/L	
7679948	EMT	RPD [RAP139-01]	Reactive Silica (SiO ₂)	2021/11/05	1.0		%	20
7679952	EMT	Spiked Blank	Colour	2021/11/05		106	%	80 - 120
7679952	EMT	Method Blank	Colour	2021/11/05	<5.0		TCU	
7679952	EMT	RPD [RAP139-01]	Colour	2021/11/05	1.3		%	20
7679953	EMT	Matrix Spike [RAP139-01]	Orthophosphate (P)	2021/11/04		94	%	80 - 120
7679953	EMT	Spiked Blank	Orthophosphate (P)	2021/11/04		94	%	80 - 120
7679953	EMT	Method Blank	Orthophosphate (P)	2021/11/04	<0.010		mg/L	
7679953	EMT	RPD [RAP139-01]	Orthophosphate (P)	2021/11/04	4.3		%	20
7679954	EMT	Matrix Spike [RAP139-01]	Nitrate + Nitrite (N)	2021/11/04		96	%	80 - 120
7679954	EMT	Spiked Blank	Nitrate + Nitrite (N)	2021/11/04		94	%	80 - 120
7679954	EMT	Method Blank	Nitrate + Nitrite (N)	2021/11/04	<0.050		mg/L	
7679954	EMT	RPD [RAP139-01]	Nitrate + Nitrite (N)	2021/11/04	NC		%	20
7679955	EMT	Matrix Spike [RAP139-01]	Nitrite (N)	2021/11/05		93	%	80 - 120
7679955	EMT	Spiked Blank	Nitrite (N)	2021/11/05		97	%	80 - 120
7679955	EMT	Method Blank	Nitrite (N)	2021/11/05	<0.010		mg/L	
7679955	EMT	RPD [RAP139-01]	Nitrite (N)	2021/11/05	NC		%	20
7679962	EMT	Matrix Spike [RAP143-01]	Total Alkalinity (Total as CaCO ₃)	2021/11/04		95	%	80 - 120
7679962	EMT	Spiked Blank	Total Alkalinity (Total as CaCO ₃)	2021/11/04		102	%	80 - 120



Bureau Veritas Job #: C1V1420

Report Date: 2021/11/10

Anaconda Mining Inc

Your P.O. #: 0267

Sampler Initials: DB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7679962	EMT	Method Blank	Total Alkalinity (Total as CaCO ₃)	2021/11/04	<5.0		mg/L	
7679962	EMT	RPD [RAP143-01]	Total Alkalinity (Total as CaCO ₃)	2021/11/04	NC		%	20
7679969	EMT	Matrix Spike [RAP143-01]	Dissolved Chloride (Cl ⁻)	2021/11/05		95	%	80 - 120
7679969	EMT	Spiked Blank	Dissolved Chloride (Cl ⁻)	2021/11/05		95	%	80 - 120
7679969	EMT	Method Blank	Dissolved Chloride (Cl ⁻)	2021/11/05	<1.0		mg/L	
7679969	EMT	RPD [RAP143-01]	Dissolved Chloride (Cl ⁻)	2021/11/05	0.82		%	20
7679970	EMT	Matrix Spike [RAP143-01]	Dissolved Sulphate (SO ₄)	2021/11/04		101	%	80 - 120
7679970	EMT	Spiked Blank	Dissolved Sulphate (SO ₄)	2021/11/04		92	%	80 - 120
7679970	EMT	Method Blank	Dissolved Sulphate (SO ₄)	2021/11/04	<2.0		mg/L	
7679970	EMT	RPD [RAP143-01]	Dissolved Sulphate (SO ₄)	2021/11/04	NC		%	20
7679971	EMT	Matrix Spike [RAP143-01]	Reactive Silica (SiO ₂)	2021/11/05		94	%	80 - 120
7679971	EMT	Spiked Blank	Reactive Silica (SiO ₂)	2021/11/05		91	%	80 - 120
7679971	EMT	Method Blank	Reactive Silica (SiO ₂)	2021/11/05	<0.50		mg/L	
7679971	EMT	RPD [RAP143-01]	Reactive Silica (SiO ₂)	2021/11/05	1.6		%	20
7679972	EMT	Spiked Blank	Colour	2021/11/05		97	%	80 - 120
7679972	EMT	Method Blank	Colour	2021/11/05	<5.0		TCU	
7679972	EMT	RPD [RAP143-01]	Colour	2021/11/05	3.4		%	20
7679973	EMT	Matrix Spike [RAP143-01]	Orthophosphate (P)	2021/11/04		94	%	80 - 120
7679973	EMT	Spiked Blank	Orthophosphate (P)	2021/11/04		96	%	80 - 120
7679973	EMT	Method Blank	Orthophosphate (P)	2021/11/04	<0.010		mg/L	
7679973	EMT	RPD [RAP143-01]	Orthophosphate (P)	2021/11/04	NC		%	20
7679975	EMT	Matrix Spike [RAP143-01]	Nitrate + Nitrite (N)	2021/11/04		83	%	80 - 120
7679975	EMT	Spiked Blank	Nitrate + Nitrite (N)	2021/11/04		94	%	80 - 120
7679975	EMT	Method Blank	Nitrate + Nitrite (N)	2021/11/04	<0.050		mg/L	
7679975	EMT	RPD [RAP143-01]	Nitrate + Nitrite (N)	2021/11/04	NC		%	20
7679976	EMT	Matrix Spike [RAP143-01]	Nitrite (N)	2021/11/05		80 (2)	%	80 - 120
7679976	EMT	Spiked Blank	Nitrite (N)	2021/11/05		99	%	80 - 120
7679976	EMT	Method Blank	Nitrite (N)	2021/11/05	<0.010		mg/L	
7679976	EMT	RPD [RAP143-01]	Nitrite (N)	2021/11/05	NC		%	20
7679991	EMT	Matrix Spike [RAP146-01]	Total Alkalinity (Total as CaCO ₃)	2021/11/04		95	%	80 - 120
7679991	EMT	Spiked Blank	Total Alkalinity (Total as CaCO ₃)	2021/11/04		103	%	80 - 120
7679991	EMT	Method Blank	Total Alkalinity (Total as CaCO ₃)	2021/11/04	<5.0		mg/L	
7679991	EMT	RPD [RAP146-01]	Total Alkalinity (Total as CaCO ₃)	2021/11/04	NC		%	20
7679995	EMT	Matrix Spike [RAP146-01]	Dissolved Chloride (Cl ⁻)	2021/11/05		94	%	80 - 120
7679995	EMT	Spiked Blank	Dissolved Chloride (Cl ⁻)	2021/11/05		95	%	80 - 120
7679995	EMT	Method Blank	Dissolved Chloride (Cl ⁻)	2021/11/05	<1.0		mg/L	
7679995	EMT	RPD [RAP146-01]	Dissolved Chloride (Cl ⁻)	2021/11/05	0.57		%	20
7679996	EMT	Matrix Spike [RAP146-01]	Dissolved Sulphate (SO ₄)	2021/11/04		114	%	80 - 120
7679996	EMT	Spiked Blank	Dissolved Sulphate (SO ₄)	2021/11/04		94	%	80 - 120
7679996	EMT	Method Blank	Dissolved Sulphate (SO ₄)	2021/11/04	<2.0		mg/L	
7679996	EMT	RPD [RAP146-01]	Dissolved Sulphate (SO ₄)	2021/11/04	NC		%	20
7679998	EMT	Matrix Spike [RAP146-01]	Reactive Silica (SiO ₂)	2021/11/05		88	%	80 - 120
7679998	EMT	Spiked Blank	Reactive Silica (SiO ₂)	2021/11/05		91	%	80 - 120
7679998	EMT	Method Blank	Reactive Silica (SiO ₂)	2021/11/05	<0.50		mg/L	
7679998	EMT	RPD [RAP146-01]	Reactive Silica (SiO ₂)	2021/11/05	0.061		%	20
7679999	EMT	Spiked Blank	Colour	2021/11/05		104	%	80 - 120
7679999	EMT	Method Blank	Colour	2021/11/05	<5.0		TCU	
7679999	EMT	RPD [RAP146-01]	Colour	2021/11/05	0.58		%	20
7680002	EMT	Matrix Spike [RAP146-01]	Orthophosphate (P)	2021/11/04		92	%	80 - 120
7680002	EMT	Spiked Blank	Orthophosphate (P)	2021/11/04		90	%	80 - 120
7680002	EMT	Method Blank	Orthophosphate (P)	2021/11/04	<0.010		mg/L	
7680002	EMT	RPD [RAP146-01]	Orthophosphate (P)	2021/11/04	NC		%	20
7680003	EMT	Matrix Spike [RAP146-01]	Nitrate + Nitrite (N)	2021/11/04		88	%	80 - 120
7680003	EMT	Spiked Blank	Nitrate + Nitrite (N)	2021/11/04		91	%	80 - 120



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7680003	EMT	Method Blank	Nitrate + Nitrite (N)	2021/11/04	<0.050		mg/L	
7680003	EMT	RPD [RAP146-01]	Nitrate + Nitrite (N)	2021/11/04	NC		%	20
7680004	EMT	Matrix Spike [RAP146-01]	Nitrite (N)	2021/11/05		83	%	80 - 120
7680004	EMT	Spiked Blank	Nitrite (N)	2021/11/05		94	%	80 - 120
7680004	EMT	Method Blank	Nitrite (N)	2021/11/05	<0.010		mg/L	
7680004	EMT	RPD [RAP146-01]	Nitrite (N)	2021/11/05	NC		%	20
7680034	EMT	Matrix Spike [RAP198-01]	Total Alkalinity (Total as CaCO ₃)	2021/11/05		98	%	80 - 120
7680034	EMT	Spiked Blank	Total Alkalinity (Total as CaCO ₃)	2021/11/05		98	%	80 - 120
7680034	EMT	Method Blank	Total Alkalinity (Total as CaCO ₃)	2021/11/05	<5.0		mg/L	
7680034	EMT	RPD [RAP198-01]	Total Alkalinity (Total as CaCO ₃)	2021/11/05	NC		%	20
7680043	EMT	Matrix Spike [RAP198-01]	Dissolved Chloride (Cl ⁻)	2021/11/05		92	%	80 - 120
7680043	EMT	Spiked Blank	Dissolved Chloride (Cl ⁻)	2021/11/05		95	%	80 - 120
7680043	EMT	Method Blank	Dissolved Chloride (Cl ⁻)	2021/11/05	<1.0		mg/L	
7680043	EMT	RPD [RAP198-01]	Dissolved Chloride (Cl ⁻)	2021/11/05	6.1		%	20
7680050	EMT	Matrix Spike [RAP198-01]	Dissolved Sulphate (SO ₄)	2021/11/04		111	%	80 - 120
7680050	EMT	Spiked Blank	Dissolved Sulphate (SO ₄)	2021/11/04		95	%	80 - 120
7680050	EMT	Method Blank	Dissolved Sulphate (SO ₄)	2021/11/04	<2.0		mg/L	
7680050	EMT	RPD [RAP198-01]	Dissolved Sulphate (SO ₄)	2021/11/04	NC		%	20
7680059	EMT	Matrix Spike [RAP198-01]	Reactive Silica (SiO ₂)	2021/11/05		92	%	80 - 120
7680059	EMT	Spiked Blank	Reactive Silica (SiO ₂)	2021/11/05		90	%	80 - 120
7680059	EMT	Method Blank	Reactive Silica (SiO ₂)	2021/11/05	<0.50		mg/L	
7680059	EMT	RPD [RAP198-01]	Reactive Silica (SiO ₂)	2021/11/05	0.82		%	20
7680060	EMT	Spiked Blank	Colour	2021/11/05		99	%	80 - 120
7680060	EMT	Method Blank	Colour	2021/11/05	<5.0		TCU	
7680060	EMT	RPD [RAP198-01]	Colour	2021/11/05	2.3		%	20
7680065	EMT	Matrix Spike [RAP198-01]	Orthophosphate (P)	2021/11/04		94	%	80 - 120
7680065	EMT	Spiked Blank	Orthophosphate (P)	2021/11/04		91	%	80 - 120
7680065	EMT	Method Blank	Orthophosphate (P)	2021/11/04	<0.010		mg/L	
7680065	EMT	RPD [RAP198-01]	Orthophosphate (P)	2021/11/04	NC		%	20
7680068	EMT	Matrix Spike [RAP198-01]	Nitrate + Nitrite (N)	2021/11/04		94	%	80 - 120
7680068	EMT	Spiked Blank	Nitrate + Nitrite (N)	2021/11/04		94	%	80 - 120
7680068	EMT	Method Blank	Nitrate + Nitrite (N)	2021/11/04	<0.050		mg/L	
7680068	EMT	RPD [RAP198-01]	Nitrate + Nitrite (N)	2021/11/04	NC		%	20
7680073	EMT	Matrix Spike [RAP198-01]	Nitrite (N)	2021/11/05		88	%	80 - 120
7680073	EMT	Spiked Blank	Nitrite (N)	2021/11/05		96	%	80 - 120
7680073	EMT	Method Blank	Nitrite (N)	2021/11/05	<0.010		mg/L	
7680073	EMT	RPD [RAP198-01]	Nitrite (N)	2021/11/05	NC		%	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Elevated reporting limit due to sample matrix.

(2) Poor spike recovery due to probable sample matrix interference.



Bureau Veritas Job #: C1V1420
Report Date: 2021/11/10

Anaconda Mining Inc
Your P.O. #: 0267
Sampler Initials: DB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Colleen Acker, B.Sc, Scientific Service Specialist

Mike MacGillivray, Scientific Specialist (Inorganics)



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Automated Statchk

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



DALHOUSIE
UNIVERSITY

Inspiring Minds

Department of Oceanography
1355 Oxford St
Halifax, NS
B3H 4R2

Determination of chlorophyll a by fluorescence

Client: Bureau Veritas Laboratories, 200 Bluewater Road, Bedford, NS, B4B 1G9

Attention: Atena Georgescu

Received: 2021-10-27

Project #: C1V1420

Completed: 2021-10-29

Hugh MacIntyre

Hugh MacIntyre, Ph.D.

Chl *a* (chlorophyll *a* ; $\mu\text{g L}^{-1}$) determined by the acidification method (Holm-Hansen et al., 1965). Estimates made with the non-acidification method (Welschmeyer, 1994) are shown for comparison.

The non-acidification method is considered more reliable than the acidification method in correcting for bias due to the contributions of chlorophyll *b* and chlorophyll degradation products.

Holm-Hansen O, Lorenzen CJ, Holmes RW, Strickland JDH (1965) Fluorometric determination of chlorophyll.

J Conseil 30:3-15

Welschmeyer NA (1994) Fluorometric analysis of chlorophyll *a* in the presence of chlorophyll *b* and phaeopigments.

Limnol Oceanogr 39:1985-1992

Contractor ID	Client ID	Chl <i>a</i> (acidification)	Chl <i>a</i> (non-acidification)
RAP139-07R	SW-11-21	17.9	25.1
RAP140-07R	SW-12-21	1.16	1.62
RAP141-07R	SW-13-21	0.055	0.073
RAP142-07R	SW-14-21	0.133	0.23
RAP143-07R	SW-15-21	1.49	1.93
RAP144-07R	SW-16-21	0.172	0.272
RAP145-07R	SW-17-21	0.942	1.64
RAP146-07R	SW-18-21	0.078	0.25
RAP147-07R	SW-19-21	10.6	14.5

Contractor ID	Client ID	Chl a (acidification)	Chl a (non-acidification)
RAP148-07R	SW-20-21	0.24	0.315
RAP198-07R	SWDUPA	1.2	1.63

Methyl Mercury Results

Flett Research Ltd.

440 DeSalaberry Ave. Winnipeg, MB R2L 0Y7
Fax/Phone (204) 667-2505
E-mail: flett@flettresearch.ca Webpage: http://www.flettresearch.ca

MTWATR110421J52
Page 1 of 1

CLIENT: Bureau Veritas - Bedford: C1V1420

200 Bluewater Road, Suite 105
Bedford, NS B4B 1G9

Date Received: October 28, 2021

Sampling Date: October 21, 2021 to October 22, 2021

Date Issued: November 5, 2021

Matrix: Water

Transaction ID: 894

PO/Contract No.:

Date Analysed: November 4, 2021

Analyst(s): Jason S.

Analytical Method: M10211: Methyl Mercury in Water by Distillation, Aqueous Ethylation, Purge and Trap, and CVAFS - Tekran 2700 Mercury Analyser (Version 2)

Comments: Samples (except for SW-15-21) were yellowish in colour with particulates present. Sample SW-15-21 had particulates present.

Detection Limit: The method detection limit (MDL) for this method is 0.0035 ng/L. The MDL is the minimum concentration that can be reported with 99% confidence that the measured concentration exceeds zero and is based on the distillation of 45mL of raw sample and analysis of either 20 or 30mL of a 40mL distillate.

For reporting purpose samples are flagged when concentration is below the methods EPA defined minimum level (ML= 0.0135 ng/L).
As concentration rises above the MDL confidence that the analyte is present approaches 100% at and above the ML.

Estimated Uncertainty: Overall uncertainty decreases as analyte concentration increases. When methyl mercury concentrations exceed 0.03ng/L the estimated uncertainty of the method is $\pm 15\%$. At a concentration of 0.01ng/L uncertainty is $\pm 23\%$. Method uncertainty for concentrations at MDL is $\pm 75\%$ (0.0035 $\pm$ 0.0026 ng/L). All method uncertainties are expressed at a 95% confidence level of (k=2).

Results authorized by Dr. Robert J. Flett, Chief Scientist

QUALITY DATA

QUALITY DATA	Blanks			Pg of CH3Hg in the Ethylation Blank		Mean Gross Peak Area	CH3Hg in the Ethylation Blank (ng/L) assumes volume is 30mL			
			Ethylation blank (H2O+Reagents)		0.10	12.22	0.003			
			Mean Eth. Blank (last 30 runs)		0.17					
			Net Pg CH3Hg in the Method Blank (Eth. Blank subtracted)		Gross Peak Area	Net CH3Hg in the Method Blank (ng/L) (Eth. Blank subtracted)				
			Method Blank 1		0.13	27.79	0.006			
			Method Blank 2		0.16	32.47	0.007			
			Method Blank 3		0.15	30.28	0.006			
	Mean Method Blank				0.006					
	Mean Calibration Factor (area units / pg)		124.37 ± 9.5 %RSD							
	Spike Recovery Matrix Spike (MS) and Matrix Spike Duplicate (MSD)		Sample ID (Details)	Sample Type	Gross Peak Area	Volume of Water Sample Distilled (mL)	% CH3Hg Recovery Used for Calculations	Net CH3Hg as Hg (ng/L)	CH3Hg Recovery (%)	
			RAP143-06R (SW-15-21)	MS2	3246.09	46.40	100%	1.14	102.7	
			RAP143-06R (SW-15-21)	MS2D	3312.87	46.60	100%	1.12	101.8	
			Mean of Spike Recoveries						102.2	
			QC Samples Ongoing Precision & Recovery (OPR)		MeOPR ID1701 (1000ng/L)	(beginning of run)	1835.01	0.050	100%	991
MeOPR ID1701 (1000ng/L)					(end of run)	1890.86	0.050	100%	1078	107.8
MeOPR ID1701 (1000ng/L)					(beginning of run)	1599.22	0.050	100%	911	91.1
MeOPR ID1701 (1000ng/L)					(end of run)	1639.94	0.050	100%	1038	103.8
Mean of MeOPR							1004	100.4		
Alternate Source Standard (A.S.S)		A.S.S.-Alfa ID1301 (1000 ng/L)		4238.34		100%	1133	113.3		
LAB ID	Sampling Details	Sample ID	Date Sampled	Time Sampled	Sample Type	Gross Peak Area	Volume of Water Sample Distilled (mL)	% CH3Hg Recovery Used for Calculations	Net CH3Hg in the Sample as Hg (ng/L) [Ethylation & Method Blank subtracted] [recovery corrected]	
108001	RAP139-06R	SW-11-21	October 22, 2021	10:09	DupA1	1292.47	20.78	102.2%	1.01	
108001	RAP139-06R	SW-11-21	October 22, 2021	10:09	DupA2	1376.12	20.23	102.2%	1.04	
108002	RAP140-06R	SW-12-21	October 22, 2021	08:34		727.10	46.46	102.2%	0.230	
108003	RAP141-06R	SW-13-21	October 21, 2021	09:22		1386.45	46.88	102.2%	0.470	
108004	RAP142-06R	SW-14-21	October 21, 2021	09:58		919.63	46.01	102.2%	0.314	
108005	RAP143-06R	SW-15-21	October 21, 2021	18:01		115.50	46.28	102.2%	0.032	
108006	RAP144-06R	SW-16-21	October 21, 2021	12:28		947.35	47.20	102.2%	0.335	
108007	RAP145-06R	SW-17-21	October 21, 2021	14:59		1437.99	46.96	102.2%	0.478	
108008	RAP146-06R	SW-18-21	October 22, 2021	11:23	DupB1	619.89	8.25	102.2%	1.09	
108008	RAP146-06R	SW-18-21	October 22, 2021	11:23	DupB2	675.55	9.71	102.2%	1.09	
108009	RAP147-06R	SW-19-21	October 22, 2021	11:36		3301.74	11.37	102.2%	4.42	
108010	RAP148-06R	SW-20-21	October 21, 2021	16:24		1547.63	46.52	102.2%	0.533	
108011	RAP198-06R	SWDUPA	October 22, 2021	12:00		435.96	27.53	102.2%	0.255	

Q:\Clients A-L\Bureau Veritas - Bedford\2021\894\Methyl Mercury\MTWATR110421J52.xls

* : See 'Comments' section above for discussion.

This test report shall not be reproduced, except in full, without written approval of the laboratory.

Note: Results relate only to the items tested.

Dup : Duplicate - two subsamples of the same sample carried through the analytical procedure in an identical manner.



ISO/IEC 17025:2017 Accredited with the Canadian Association of Laboratory Accreditation

M10211-1 Version 021821

CLIENT NAME: ANACONDA MINING
232 HIGHWAY 410, PO BOX 238
BAIE VERTE, NL A0K1B0
(709) 800-7332

ATTENTION TO: COLETTE DECKER

PROJECT: Goldboro SW

AGAT WORK ORDER: 21X833826

WATER ANALYSIS REVIEWED BY: Ashley Dussault, Report Writer

DATE REPORTED: Jan 18, 2022

PAGES (INCLUDING COVER): 23

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (902) 468-8718

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
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- The test results reported herewith relate only to the samples as received by the laboratory.
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- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21X833826

PROJECT: Goldboro SW

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: ANACONDA MINING

SAMPLING SITE:

ATTENTION TO: COLETTE DECKER

SAMPLED BY:

Chlorophyll-a Water (µg/L)

DATE RECEIVED: 2021-11-23

DATE REPORTED: 2022-01-18

		SAMPLE DESCRIPTION:		SW-11-21	SW-12-21	SW-13-21	SW-14-21	SW-15-21	SW-16-21	SW-17-21	SW-18-21
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29
Parameter	Unit	G / S	RDL	3241029	3241030	3241031	3241032	3241033	3241034	3241035	3241036
Chlorophyll-a	µg/L		0.25	0.39	0.39	<0.25	0.36	1.16	2.36	0.39	0.39
Phaeophytin	µg/L		0.5	1.24	0.70	0.57	0.90	<0.5	7.82	<0.5	<0.5
		SAMPLE DESCRIPTION:		SW-19-21	SW-20-21	SWDUPA					
		SAMPLE TYPE:		Water	Water	Water					
		DATE SAMPLED:		2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29					
Parameter	Unit	G / S	RDL	3241037	3241038	3241039					
Chlorophyll-a	µg/L		0.25	0.78	<0.25	0.41					
Phaeophytin	µg/L		0.5	4.66	0.54	<0.5					

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Analysis performed at AGAT Vancouver (unless marked by *)

Certified By:

Ashley Dussault



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21X833826

PROJECT: Goldboro SW

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: ANACONDA MINING

SAMPLING SITE:

ATTENTION TO: COLETTE DECKER

SAMPLED BY:

Dissolved Metals

DATE RECEIVED: 2021-11-23

DATE REPORTED: 2022-01-18

SAMPLE DESCRIPTION:				SW-11-21	SW-12-21	SW-13-21	SW-14-21	SW-15-21	SW-17-21	SW-18-21	SW-19-21
SAMPLE TYPE:				Water	Water	Water	Water	Water	Water	Water	Water
DATE SAMPLED:				2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29
Parameter	Unit	G / S	RDL	3241029	3241030	3241031	3241032	3241033	3241035	3241036	3241037
Dissolved Aluminum	ug/L		5	352	412	363	273	96	383	426	363
Dissolved Antimony	ug/L		2	<2	<2	<2	<2	<2	<2	<2	<2
Dissolved Arsenic	ug/L		2	11	6	3	<2	<2	<2	<2	<2
Dissolved Barium	ug/L		5	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Beryllium	ug/L		2	<2	<2	<2	<2	<2	<2	<2	<2
Dissolved Bismuth	ug/L		2	<2	<2	<2	<2	<2	<2	<2	<2
Dissolved Boron	ug/L		5	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Cadmium	ug/L	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Dissolved Chromium	ug/L		1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Cobalt	ug/L		1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Copper	ug/L		2	<2	<2	<2	<2	<2	<2	<2	<2
Dissolved Iron	ug/L		50	435	476	589	462	69	357	853	869
Dissolved Lead	ug/L	0.5	0.6	1.0	0.9	0.8	<0.5	1.1	1.0	1.7	
Dissolved Manganese	ug/L		2	64	22	49	21	22	10	165	22
Dissolved Molybdenum	ug/L		2	<2	<2	<2	<2	<2	<2	<2	<2
Dissolved Nickel	ug/L		2	<2	<2	<2	<2	<2	<2	<2	<2
Dissolved Selenium	ug/L		1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Silver	ug/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dissolved Strontium	ug/L		5	10	8	7	7	<5	7	6	<5
Dissolved Thallium	ug/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dissolved Tin	ug/L		2	<2	<2	<2	<2	<2	<2	<2	<2
Dissolved Titanium	ug/L		2	4	4	4	3	<2	4	4	3
Dissolved Uranium	ug/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dissolved Vanadium	ug/L		2	<2	<2	<2	<2	<2	<2	<2	<2
Dissolved Zinc	ug/L		5	5	<5	5	<5	<5	<5	<5	<5

Certified By:

Ashley Dussault



Certificate of Analysis

AGAT WORK ORDER: 21X833826

PROJECT: Goldboro SW

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: ANACONDA MINING

SAMPLING SITE:

ATTENTION TO: COLETTE DECKER

SAMPLED BY:

Dissolved Metals

DATE RECEIVED: 2021-11-23

DATE REPORTED: 2022-01-18

		SAMPLE DESCRIPTION:		SW-20-21	SWDUPA
		SAMPLE TYPE:		Water	Water
		DATE SAMPLED:		2021-11-21 13:29	2021-11-21 13:29
Parameter	Unit	G / S	RDL	3241038	3241039
Dissolved Aluminum	ug/L		5	501	398
Dissolved Antimony	ug/L		2	<2	<2
Dissolved Arsenic	ug/L		2	7	6
Dissolved Barium	ug/L		5	<5	<5
Dissolved Beryllium	ug/L		2	<2	<2
Dissolved Bismuth	ug/L		2	<2	<2
Dissolved Boron	ug/L		5	<5	<5
Dissolved Cadmium	ug/L	0.09	<0.09	<0.09	<0.09
Dissolved Chromium	ug/L	1	<1	<1	<1
Dissolved Cobalt	ug/L	1	<1	<1	<1
Dissolved Copper	ug/L	2	<2	<2	<2
Dissolved Iron	ug/L	50	649	649	521
Dissolved Lead	ug/L	0.5	1.3	1.3	1.1
Dissolved Manganese	ug/L	2	42	42	22
Dissolved Molybdenum	ug/L	2	<2	<2	<2
Dissolved Nickel	ug/L	2	<2	<2	<2
Dissolved Selenium	ug/L	1	<1	<1	<1
Dissolved Silver	ug/L	0.1	<0.1	<0.1	<0.1
Dissolved Strontium	ug/L	5	7	7	8
Dissolved Thallium	ug/L	0.1	<0.1	<0.1	<0.1
Dissolved Tin	ug/L	2	<2	<2	<2
Dissolved Titanium	ug/L	2	5	5	4
Dissolved Uranium	ug/L	0.1	<0.1	<0.1	<0.1
Dissolved Vanadium	ug/L	2	<2	<2	<2
Dissolved Zinc	ug/L	5	<5	<5	<5

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

3241029-3241039 Metals analysis completed on a filtered sample.

Analysis performed at AGAT Halifax (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 21X833826

PROJECT: Goldboro SW

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: ANACONDA MINING

ATTENTION TO: COLETTE DECKER

SAMPLING SITE:

SAMPLED BY:

Dissolved Metals (Lab Filtered)

DATE RECEIVED: 2021-11-23

DATE REPORTED: 2022-01-18

SAMPLE DESCRIPTION: SW-16-21
SAMPLE TYPE: Water
DATE SAMPLED: 2021-11-21
13:29
3241034

Parameter	Unit	G / S	RDL	3241034
Dissolved Aluminum	ug/L		5	309
Dissolved Antimony	ug/L		2	<2
Dissolved Arsenic	ug/L		2	<2
Dissolved Barium	ug/L		5	<5
Dissolved Beryllium	ug/L		2	<2
Dissolved Bismuth	ug/L		2	<2
Dissolved Boron	ug/L		5	<5
Dissolved Cadmium	ug/L	0.09		<0.09
Dissolved Chromium	ug/L	1		<1
Dissolved Cobalt	ug/L	1		<1
Dissolved Copper	ug/L	2		<2
Dissolved Iron	ug/L	50		299
Dissolved Lead	ug/L	0.5		0.6
Dissolved Manganese	ug/L	2		9
Dissolved Molybdenum	ug/L	2		<2
Dissolved Nickel	ug/L	2		<2
Dissolved Selenium	ug/L	1		<1
Dissolved Silver	ug/L	0.1		<0.1
Dissolved Strontium	ug/L	5		6
Dissolved Thallium	ug/L	0.1		<0.1
Dissolved Tin	ug/L	2		<2
Dissolved Titanium	ug/L	2		3
Dissolved Uranium	ug/L	0.1		<0.1
Dissolved Vanadium	ug/L	2		<2
Dissolved Zinc	ug/L	5		<5

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard
3241034 Metals analysis completed on a lab filtered sample.
Analysis performed at AGAT Halifax (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 21X833826

PROJECT: Goldboro SW

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: ANACONDA MINING

SAMPLING SITE:

ATTENTION TO: COLETTE DECKER

SAMPLED BY:

Mercury Analysis in Water (Dissolved) - CCME Marine Aquatic Life (MAL)

DATE RECEIVED: 2021-11-23

DATE REPORTED: 2022-01-18

		SAMPLE DESCRIPTION:		SW-11-21	SW-12-21	SW-13-21	SW-14-21	SW-15-21	SW-16-21	SW-17-21	SW-18-21
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29
Parameter	Unit	G / S	RDL	3241029	3241030	3241031	3241032	3241033	3241034	3241035	3241036
Dissolved Mercury	ug/L	0.016	0.013	0.025	0.025	0.025	0.021	<0.013	0.026	0.025	0.024
Mercury Digest				Y	Y	Y	Y	Y	Y	Y	Y
		SAMPLE DESCRIPTION:		SW-19-21	SW-20-21	SWDUPA					
		SAMPLE TYPE:		Water	Water	Water					
		DATE SAMPLED:		2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29					
Parameter	Unit	G / S	RDL	3241037	3241038	3241039					
Dissolved Mercury	ug/L	0.016	0.013	0.028	0.024	0.025					
Mercury Digest				Y	Y	Y					

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME MAL - updated 2015

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Analysis performed at AGAT Halifax (unless marked by *)

Certified By:



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21X833826

PROJECT: Goldboro SW

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: ANACONDA MINING

SAMPLING SITE:

ATTENTION TO: COLETTE DECKER

SAMPLED BY:

Mercury, Total - MWAL

DATE RECEIVED: 2021-11-23

DATE REPORTED: 2022-01-18

		SAMPLE DESCRIPTION:		SW-11-21	SW-12-21	SW-13-21	SW-14-21	SW-15-21	SW-16-21	SW-17-21	SW-18-21
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29
Parameter	Unit	G / S	RDL	3241029	3241030	3241031	3241032	3241033	3241034	3241035	3241036
Total Mercury	ug/L		0.013	0.026	0.026	0.027	0.021	<0.013	0.033	0.026	0.024
		SAMPLE DESCRIPTION:		SW-19-21	SW-20-21	SWDUPA					
		SAMPLE TYPE:		Water	Water	Water					
		DATE SAMPLED:		2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29					
Parameter	Unit	G / S	RDL	3241037	3241038	3241039					
Total Mercury	ug/L		0.013	0.030	0.024	0.026					

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Analysis performed at AGAT Halifax (unless marked by *)

Certified By:



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21X833826

PROJECT: Goldboro SW

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: ANACONDA MINING

SAMPLING SITE:

ATTENTION TO: COLETTE DECKER

SAMPLED BY:

Methylmercury in Water, Total											
DATE RECEIVED: 2021-11-23						DATE REPORTED: 2022-01-18					
		SAMPLE DESCRIPTION:		SW-11-21	SW-12-21	SW-13-21	SW-14-21	SW-15-21	SW-16-21	SW-17-21	SW-18-21
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29
Parameter	Unit	G / S	RDL	3241029	3241030	3241031	3241032	3241033	3241034	3241035	3241036
Methylmercury, Total	ng/L		0.03	0.36	0.22	0.23	0.24	0.04	0.20	0.08	0.47
		SAMPLE DESCRIPTION:		SW-19-21	SW-20-21	SWDUPA					
		SAMPLE TYPE:		Water	Water	Water					
		DATE SAMPLED:		2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29					
Parameter	Unit	G / S	RDL	3241037	3241038	3241039					
Methylmercury, Total	ng/L		0.03	1.21	0.20	0.14					

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

3241029-3241039 Sample arrived at laboratory not double-bagged as per analysis requirements.

Analysis performed at AGAT Halifax (unless marked by *)

Certified By:

Ashley Dussault



Certificate of Analysis

AGAT WORK ORDER: 21X833826

PROJECT: Goldboro SW

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: ANACONDA MINING

ATTENTION TO: COLETTE DECKER

SAMPLING SITE:

SAMPLED BY:

Standard Water Analysis + Total Metals

DATE RECEIVED: 2021-11-23

DATE REPORTED: 2022-01-18

SAMPLE DESCRIPTION:				SW-11-21	SW-12-21	SW-13-21	SW-14-21	SW-15-21	SW-16-21	SW-17-21	SW-18-21
SAMPLE TYPE:				Water	Water	Water	Water	Water	Water	Water	Water
DATE SAMPLED:				2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29
Parameter	Unit	G / S	RDL	3241029	3241030	3241031	3241032	3241033	3241034	3241035	3241036
pH				5.37	4.76	4.29	4.37	4.87	4.19	4.01	4.17
Reactive Silica as SiO ₂	mg/L		0.5	3.8	2.8	3.5	3.2	1.6	4.5	3.4	2.9
Chloride	mg/L		1	8	6	7	7	6	4	7	7
Fluoride	mg/L		0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
Sulphate	mg/L		2	8	2	<2	<2	<2	<2	<2	<2
Alkalinity	mg/L		5	<5	<5	<5	<5	<5	<5	<5	<5
True Color	TCU		5.00	169	186	202	166	47.0	184	209	240
Turbidity	NTU		0.5	3.3	1.7	1.7	3.5	1.6	2.2	1.8	3.5
Electrical Conductivity	umho/cm		1	52	40	50	43	30	49	54	50
Nitrate + Nitrite as N	mg/L		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nitrate as N	mg/L		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nitrite as N	mg/L		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ammonia as N	mg/L		0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Ortho-Phosphate as P	mg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Sodium	mg/L		0.1	5.8	4.9	4.8	4.8	4.0	4.3	4.5	4.5
Total Potassium	mg/L		0.1	0.4	0.4	0.2	0.3	0.4	0.3	0.3	0.3
Total Calcium	mg/L		0.1	5.9	1.8	1.0	1.0	0.8	2.3	1.3	2.7
Total Magnesium	mg/L		0.1	0.9	0.7	0.6	0.6	0.5	0.6	0.6	0.8
Bicarb. Alkalinity (as CaCO ₃)	mg/L		5	<5	<5	<5	<5	<5	<5	<5	<5
Carb. Alkalinity (as CaCO ₃)	mg/L		10	<10	<10	<10	<10	<10	<10	<10	<10
Hydroxide	mg/L		5	<5	<5	<5	<5	<5	<5	<5	<5
Calculated TDS	mg/L		1	30	17	15	15	12	13	15	17
Hardness	mg/L			18.4	7.4	5.0	5.0	4.1	8.2	5.7	10.0
Langelier Index (@20C)	NA			-4.70	-5.80	-6.53	-6.45	-6.04	-6.26	-6.69	-6.22
Langelier Index (@ 4C)	NA			-5.02	-6.12	-6.85	-6.77	-6.36	-6.58	-7.01	-6.54
Saturation pH (@ 20C)	NA			10.1	10.6	10.8	10.8	10.9	10.5	10.7	10.4
Saturation pH (@ 4C)	NA			10.4	10.9	11.1	11.1	11.2	10.8	11.0	10.7
Anion Sum	me/L			0.39	0.21	0.20	0.20	0.17	0.11	0.20	0.20
Cation sum	me/L			0.75	0.48	0.44	0.42	0.31	0.50	0.49	0.60

Certified By:



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21X833826

PROJECT: Goldboro SW

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: ANACONDA MINING

ATTENTION TO: COLETTE DECKER

SAMPLING SITE:

SAMPLED BY:

Standard Water Analysis + Total Metals

DATE RECEIVED: 2021-11-23

DATE REPORTED: 2022-01-18

SAMPLE DESCRIPTION:				SW-11-21	SW-12-21	SW-13-21	SW-14-21	SW-15-21	SW-16-21	SW-17-21	SW-18-21
SAMPLE TYPE:				Water	Water	Water	Water	Water	Water	Water	Water
DATE SAMPLED:				2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29
Parameter	Unit	G / S	RDL	3241029	3241030	3241031	3241032	3241033	3241034	3241035	3241036
% Difference/ Ion Balance	%			31.4	38.7	37.9	36.1	28.9	63.2	42.2	50.4
Total Aluminum	ug/L	5	831	608	446	367	159	542	491	697	
Total Antimony	ug/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Arsenic	ug/L	2	10	6	3	<2	<2	<2	<2	<2	<2
Total Barium	ug/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Beryllium	ug/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Bismuth	ug/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Boron	ug/L	5	107	25	11	7	10	41	20	51	
Total Cadmium	ug/L	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Total Chromium	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Cobalt	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Copper	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Iron	ug/L	50	511	570	647	576	251	420	416	1180	
Total Lead	ug/L	0.5	0.9	0.9	0.8	0.8	<0.5	0.9	0.9	1.1	
Total Manganese	ug/L	2	71	22	45	21	30	11	11	163	
Total Molybdenum	ug/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Nickel	ug/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Phosphorous	mg/L	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Total Selenium	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Silver	ug/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Strontium	ug/L	5	22	10	8	8	6	11	9	12	
Total Thallium	ug/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Tin	ug/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Titanium	ug/L	2	12	7	5	5	<2	7	6	12	
Total Uranium	ug/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total Vanadium	ug/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Zinc	ug/L	5	81	17	8	<5	7	33	15	46	

Certified By:

Ashley Dussault



Certificate of Analysis

AGAT WORK ORDER: 21X833826

PROJECT: Goldboro SW

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: ANACONDA MINING

ATTENTION TO: COLETTE DECKER

SAMPLING SITE:

SAMPLED BY:

Standard Water Analysis + Total Metals

DATE RECEIVED: 2021-11-23

DATE REPORTED: 2022-01-18

		SAMPLE DESCRIPTION:		SW-19-21	SW-20-21	SWDUPA
		SAMPLE TYPE:		Water	Water	Water
		DATE SAMPLED:		2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29
Parameter	Unit	G / S	RDL	3241037	3241038	3241039
pH				3.99	4.16	4.40
Reactive Silica as SiO ₂	mg/L		0.5	2.4	3.5	2.9
Chloride	mg/L		1	7	7	4
Fluoride	mg/L		0.12	<0.12	<0.12	<0.12
Sulphate	mg/L		2	<2	<2	<2
Alkalinity	mg/L		5	<5	<5	<5
True Color	TCU		5.00	270	228	200
Turbidity	NTU		0.5	6.6	2.6	1.6
Electrical Conductivity	umho/cm		1	56	50	41
Nitrate + Nitrite as N	mg/L		0.05	<0.05	<0.05	<0.05
Nitrate as N	mg/L		0.05	<0.05	<0.05	<0.05
Nitrite as N	mg/L		0.05	<0.05	<0.05	<0.05
Ammonia as N	mg/L		0.03	<0.03	<0.03	<0.03
Ortho-Phosphate as P	mg/L		0.01	<0.01	<0.01	<0.01
Total Sodium	mg/L		0.1	4.7	4.7	4.3
Total Potassium	mg/L		0.1	0.2	0.5	0.3
Total Calcium	mg/L		0.1	1.5	4.3	5.1
Total Magnesium	mg/L		0.1	0.5	0.8	0.7
Bicarb. Alkalinity (as CaCO ₃)	mg/L		5	<5	<5	<5
Carb. Alkalinity (as CaCO ₃)	mg/L		10	<10	<10	<10
Hydroxide	mg/L		5	<5	<5	<5
Calculated TDS	mg/L		1	15	19	16
Hardness	mg/L			5.8	14.0	15.6
Langelier Index (@20C)	NA			-6.65	-6.03	-5.71
Langelier Index (@ 4C)	NA			-6.97	-6.35	-6.03
Saturation pH (@ 20C)	NA			10.6	10.2	10.1
Saturation pH (@ 4C)	NA			11.0	10.5	10.4
Anion Sum	me/L			0.20	0.20	0.11
Cation sum	me/L			0.52	0.70	0.67

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 21X833826

PROJECT: Goldboro SW

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Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
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CLIENT NAME: ANACONDA MINING

ATTENTION TO: COLETTE DECKER

SAMPLING SITE:

SAMPLED BY:

Standard Water Analysis + Total Metals

DATE RECEIVED: 2021-11-23

DATE REPORTED: 2022-01-18

		SAMPLE DESCRIPTION:		SW-19-21	SW-20-21	SWDUPA
		SAMPLE TYPE:		Water	Water	Water
		DATE SAMPLED:		2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29
Parameter	Unit	G / S	RDL	3241037	3241038	3241039
% Difference/ Ion Balance	%			45.0	56.1	71.1
Total Aluminum	ug/L		5	520	905	848
Total Antimony	ug/L		2	<2	<2	<2
Total Arsenic	ug/L		2	<2	8	6
Total Barium	ug/L		5	<5	<5	5
Total Beryllium	ug/L		2	<2	<2	<2
Total Bismuth	ug/L		2	<2	<2	<2
Total Boron	ug/L		5	22	90	106
Total Cadmium	ug/L	0.09	<0.09	<0.09	<0.09	<0.09
Total Chromium	ug/L		1	<1	1	<1
Total Cobalt	ug/L		1	<1	<1	<1
Total Copper	ug/L		1	<1	<1	<1
Total Iron	ug/L		50	933	868	622
Total Lead	ug/L		0.5	1.7	1.3	1.1
Total Manganese	ug/L		2	25	46	24
Total Molybdenum	ug/L		2	<2	<2	<2
Total Nickel	ug/L		2	<2	<2	<2
Total Phosphorous	mg/L	0.02	0.04	<0.02	<0.02	<0.02
Total Selenium	ug/L		1	<1	<1	<1
Total Silver	ug/L	0.1	<0.1	<0.1	<0.1	<0.1
Total Strontium	ug/L		5	7	16	19
Total Thallium	ug/L		0.1	<0.1	<0.1	<0.1
Total Tin	ug/L		2	<2	<2	<2
Total Titanium	ug/L		2	6	13	12
Total Uranium	ug/L	0.2	<0.2	<0.2	<0.2	<0.2
Total Vanadium	ug/L		2	<2	<2	<2
Total Zinc	ug/L		5	17	77	92

Certified By:



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21X833826

PROJECT: Goldboro SW

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: ANACONDA MINING

SAMPLING SITE:

ATTENTION TO: COLETTE DECKER

SAMPLED BY:

Standard Water Analysis + Total Metals

DATE RECEIVED: 2021-11-23

DATE REPORTED: 2022-01-18

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

3241029-3241039 % Difference / Ion Balance, Hardness, Langelier Index, Nitrate + Nitrite, Hydroxide and Saturation pH are calculated parameters. The calculated parameters are non-accredited. The component parameters of the calculations are accredited. When the cation and anion sums are at, or below 1 me/L, the acceptable criteria is less than 0.3me/L

Analysis performed at AGAT Halifax (unless marked by *)

Certified By:



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21X833826

PROJECT: Goldboro SW

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: ANACONDA MINING

SAMPLING SITE:

ATTENTION TO: COLETTE DECKER

SAMPLED BY:

Water Analysis - TOC/DOC

DATE RECEIVED: 2021-11-23

DATE REPORTED: 2022-01-18

				SAMPLE DESCRIPTION:	SW-11-21	SW-13-21	SW-14-21	SW-15-21		SW-16-21	SW-17-21
				SAMPLE TYPE:	Water	Water	Water	Water		Water	Water
				DATE SAMPLED:	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29		2021-11-21 13:29	2021-11-21 13:29
Parameter	Unit	G / S	RDL	3241029	3241031	3241032	RDL	3241033	RDL	3241034	3241035
Total Organic Carbon	mg/L		1	24	22	17	1	6	1	20	24
Dissolved Organic Carbon (DOC)	mg/L		1	22	21	18	2	5	1	21	25
				SAMPLE DESCRIPTION:	SW-18-21	SW-19-21	SW-20-21	SWDUPA			
				SAMPLE TYPE:	Water	Water	Water	Water			
				DATE SAMPLED:	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29	2021-11-21 13:29			
Parameter	Unit	G / S	RDL	3241036	3241037	3241038	RDL	3241039			
Total Organic Carbon	mg/L		1	24	28	22	1	12			
Dissolved Organic Carbon (DOC)	mg/L		1	19	27	22	2	10			

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard
Analysis performed at AGAT Calgary (unless marked by *)

Certified By:



Exceedance Summary

AGAT WORK ORDER: 21X833826

PROJECT: Goldboro SW

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
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CLIENT NAME: ANACONDA MINING

ATTENTION TO: COLETTE DECKER

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
3241029	SW-11-21	NS-CCME MAL	Mercury Analysis in Water (Dissolved) - CCME Marine Aquatic Life (MAL)	Dissolved Mercury	ug/L	0.016	0.025
3241030	SW-12-21	NS-CCME MAL	Mercury Analysis in Water (Dissolved) - CCME Marine Aquatic Life (MAL)	Dissolved Mercury	ug/L	0.016	0.025
3241031	SW-13-21	NS-CCME MAL	Mercury Analysis in Water (Dissolved) - CCME Marine Aquatic Life (MAL)	Dissolved Mercury	ug/L	0.016	0.025
3241032	SW-14-21	NS-CCME MAL	Mercury Analysis in Water (Dissolved) - CCME Marine Aquatic Life (MAL)	Dissolved Mercury	ug/L	0.016	0.021
3241034	SW-16-21	NS-CCME MAL	Mercury Analysis in Water (Dissolved) - CCME Marine Aquatic Life (MAL)	Dissolved Mercury	ug/L	0.016	0.026
3241035	SW-17-21	NS-CCME MAL	Mercury Analysis in Water (Dissolved) - CCME Marine Aquatic Life (MAL)	Dissolved Mercury	ug/L	0.016	0.025
3241036	SW-18-21	NS-CCME MAL	Mercury Analysis in Water (Dissolved) - CCME Marine Aquatic Life (MAL)	Dissolved Mercury	ug/L	0.016	0.024
3241037	SW-19-21	NS-CCME MAL	Mercury Analysis in Water (Dissolved) - CCME Marine Aquatic Life (MAL)	Dissolved Mercury	ug/L	0.016	0.028
3241038	SW-20-21	NS-CCME MAL	Mercury Analysis in Water (Dissolved) - CCME Marine Aquatic Life (MAL)	Dissolved Mercury	ug/L	0.016	0.024
3241039	SWDUPA	NS-CCME MAL	Mercury Analysis in Water (Dissolved) - CCME Marine Aquatic Life (MAL)	Dissolved Mercury	ug/L	0.016	0.025

Quality Assurance

CLIENT NAME: ANACONDA MINING

PROJECT: Goldboro SW

SAMPLING SITE:

AGAT WORK ORDER: 21X833826

ATTENTION TO: COLETTE DECKER

SAMPLED BY:

Water Analysis															
RPT Date: Jan 18, 2022			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Standard Water Analysis + Total Metals

pH	3241029	3241029	5.37	4.97	7.7%	<	103%	80%	120%	NA			NA		
Reactive Silica as SiO2	3269515		<0.5	<0.5	NA	<0.5	84%	80%	120%	93%	80%	120%	97%	80%	120%
Chloride	3247404		6	5	1.0%	< 1	95%	80%	120%	NA	80%	120%	98%	70%	130%
Fluoride	3247404		0.46	0.47	NA	< 0.12	106%	80%	120%	NA	80%	120%	97%	70%	130%
Sulphate	3247404		716	720	0.6%	< 2	113%	80%	120%	NA	80%	120%	NA	70%	130%
Alkalinity	3241029	3241029	<5	<5	NA	< 5	87%	80%	120%	NA			NA		
True Color	3269515		<5.00	<5.00	NA	< 5	86%	80%	120%	92%	80%	120%	NA		
Turbidity	3278296		2.2	2.2	NA	< 0.5	96%	80%	120%	NA			NA		
Electrical Conductivity	3241029	3241029	52	52	0.0%	< 1	104%	90%	110%	NA			NA		
Nitrate as N	3247404		<0.05	<0.05	NA	< 0.05	97%	80%	120%	NA	80%	120%	93%	70%	130%
Nitrite as N	3247404		<0.05	<0.05	NA	< 0.05	98%	80%	120%	NA	80%	120%	93%	70%	130%
Ammonia as N	3240048		<0.03	<0.03	NA	< 0.03	108%	80%	120%	88%	80%	120%	92%	70%	130%
Ortho-Phosphate as P	3269515		0.03	<0.01	NA	< 0.01	89%	80%	120%	108%	80%	120%	97%	80%	120%
Total Sodium	3265578		1.6	1.6	2.0%	< 0.1	106%	80%	120%	113%	80%	120%	NA	70%	130%
Total Potassium	3265578		0.2	0.2	NA	< 0.1	100%	80%	120%	107%	80%	120%	102%	70%	130%
Total Calcium	3265578		10.4	9.9	4.9%	< 0.1	101%	80%	120%	100%	80%	120%	NA	70%	130%
Total Magnesium	3265578		0.5	0.4	NA	< 0.1	104%	80%	120%	99%	80%	120%	92%	70%	130%
Bicarb. Alkalinity (as CaCO3)	3241029	3241029	<5	<5	NA	< 5	NA	80%	120%	NA			NA		
Carb. Alkalinity (as CaCO3)	3241029	3241029	<10	<10	NA	< 10	NA	80%	120%	NA			NA		
Hydroxide	3241029	3241029	<5	<5	NA	< 5	NA	80%	120%	NA			NA		
Total Aluminum	3265578		252	237	6.1%	< 5	115%	80%	120%	119%	80%	120%	NA	70%	130%
Total Antimony	3265578		<2	<2	NA	< 2	80%	80%	120%	103%	80%	120%	88%	70%	130%
Total Arsenic	3265578		<2	<2	NA	< 2	95%	80%	120%	100%	80%	120%	93%	70%	130%
Total Barium	3265578		<5	<5	NA	< 5	80%	80%	120%	86%	80%	120%	80%	70%	130%
Total Beryllium	3265578		<2	<2	NA	< 2	101%	80%	120%	104%	80%	120%	100%	70%	130%
Total Bismuth	3265578		<2	<2	NA	< 2	80%	80%	120%	97%	80%	120%	84%	70%	130%
Total Boron	3265578		61	57	6.8%	< 5	100%	80%	120%	104%	80%	120%	NA	70%	130%
Total Cadmium	3265578		<0.09	<0.09	NA	< 0.09	97%	80%	120%	101%	80%	120%	96%	70%	130%
Total Chromium	3265578		<1	<1	NA	< 1	86%	80%	120%	92%	80%	120%	85%	70%	130%
Total Cobalt	3265578		<1	<1	NA	< 1	91%	80%	120%	95%	80%	120%	91%	70%	130%
Total Copper	3265578		2	<1	NA	< 1	92%	80%	120%	97%	80%	120%	82%	70%	130%
Total Iron	3265578		<50	<50	NA	< 50	85%	80%	120%	96%	80%	120%	88%	70%	130%
Total Lead	3265578		0.7	0.6	NA	< 0.5	93%	80%	120%	103%	80%	120%	83%	70%	130%
Total Manganese	3265578		6	6	NA	< 2	89%	80%	120%	96%	80%	120%	83%	70%	130%
Total Molybdenum	3265578		<2	<2	NA	< 2	80%	80%	120%	91%	80%	120%	93%	70%	130%
Total Nickel	3265578		<2	<2	NA	< 2	89%	80%	120%	94%	80%	120%	117%	70%	130%
Total Phosphorous	3265578		<0.02	<0.02	NA	< 0.02	103%	80%	120%	106%	80%	120%	104%	70%	130%
Total Selenium	3265578		<1	<1	NA	< 1	92%	80%	120%	98%	80%	120%	91%	70%	130%
Total Silver	3265578		<0.1	<0.1	NA	< 0.1	90%	80%	120%	95%	80%	120%	92%	70%	130%

Quality Assurance

CLIENT NAME: ANACONDA MINING

PROJECT: Goldboro SW

SAMPLING SITE:

AGAT WORK ORDER: 21X833826

ATTENTION TO: COLETTE DECKER

SAMPLED BY:

Water Analysis (Continued)

RPT Date: Jan 18, 2022			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Total Strontium	3265578		19	13	NA	< 5	88%	80%	120%	96%	80%	120%	NA	70%	130%
Total Thallium	3265578		<0.1	<0.1	NA	< 0.1	92%	80%	120%	103%	80%	120%	82%	70%	130%
Total Tin	3265578		<2	<2	NA	< 2	88%	80%	120%	94%	80%	120%	90%	70%	130%
Total Titanium	3265578		9	4	NA	< 2	95%	80%	120%	101%	80%	120%	NA	70%	130%
Total Uranium	3265578		<0.2	<0.2	NA	< 0.2	92%	80%	120%	101%	80%	120%	85%	70%	130%
Total Vanadium	3265578		<2	<2	NA	< 2	88%	80%	120%	91%	80%	120%	83%	70%	130%
Total Zinc	3265578		102	106	3.8%	< 5	93%	80%	120%	96%	80%	120%	NA	70%	130%

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Dissolved Metals

Dissolved Aluminum	3241039	3241039	398	406	2.0%	< 5	95%	80%	120%	103%	80%	120%	NA	70%	130%
Dissolved Antimony	3241039	3241039	<2	<2	NA	< 2	80%	80%	120%	103%	80%	120%	101%	70%	130%
Dissolved Arsenic	3241039	3241039	6	6	NA	< 2	98%	80%	120%	98%	80%	120%	NA	70%	130%
Dissolved Barium	3241039	3241039	<5	<5	NA	< 5	80%	80%	120%	84%	80%	120%	87%	70%	130%
Dissolved Beryllium	3241039	3241039	<2	<2	NA	< 2	98%	80%	120%	102%	80%	120%	111%	70%	130%
Dissolved Bismuth	3241039	3241039	<2	<2	NA	< 2	80%	80%	120%	96%	80%	120%	NA	70%	130%
Dissolved Boron	3241039	3241039	<5	<5	NA	< 5	93%	80%	120%	98%	80%	120%	104%	70%	130%
Dissolved Cadmium	3241039	3241039	<0.09	<0.09	NA	< 0.09	94%	80%	120%	102%	80%	120%	109%	70%	130%
Dissolved Chromium	3241039	3241039	<1	<1	NA	< 1	88%	80%	120%	100%	80%	120%	96%	70%	130%
Dissolved Cobalt	3241039	3241039	<1	<1	NA	< 1	92%	80%	120%	101%	80%	120%	93%	70%	130%
Dissolved Copper	3241039	3241039	<2	<2	NA	< 2	93%	80%	120%	102%	80%	120%	97%	70%	130%
Dissolved Iron	3241039	3241039	521	511	2.0%	< 50	92%	80%	120%	100%	80%	120%	NA	70%	130%
Dissolved Lead	3241039	3241039	1.1	1.1	NA	< 0.5	93%	80%	120%	107%	80%	120%	87%	70%	130%
Dissolved Manganese	3241039	3241039	22	23	1.0%	< 2	94%	80%	120%	103%	80%	120%	NA	70%	130%
Dissolved Molybdenum	3241039	3241039	<2	<2	NA	< 2	84%	80%	120%	94%	80%	120%	70%	70%	130%
Dissolved Nickel	3241039	3241039	<2	<2	NA	< 2	91%	80%	120%	99%	80%	120%	103%	70%	130%
Dissolved Selenium	3241039	3241039	<1	<1	NA	< 1	88%	80%	120%	102%	80%	120%	100%	70%	130%
Dissolved Silver	3241039	3241039	<0.1	<0.1	NA	< 0.1	95%	80%	120%	99%	80%	120%	94%	70%	130%
Dissolved Strontium	3241039	3241039	8	8	NA	< 5	88%	80%	120%	96%	80%	120%	90%	70%	130%
Dissolved Thallium	3241039	3241039	<0.1	<0.1	NA	< 0.1	87%	80%	120%	101%	80%	120%	88%	70%	130%
Dissolved Tin	3241039	3241039	<2	<2	NA	< 2	95%	80%	120%	99%	80%	120%	91%	70%	130%
Dissolved Titanium	3241039	3241039	4	4	NA	< 2	96%	80%	120%	99%	80%	120%	94%	70%	130%
Dissolved Uranium	3241039	3241039	<0.1	<0.1	NA	< 0.1	88%	80%	120%	100%	80%	120%	87%	70%	130%
Dissolved Vanadium	3241039	3241039	<2	<2	NA	< 2	88%	80%	120%	98%	80%	120%	92%	70%	130%
Dissolved Zinc	3241039	3241039	<5	<5	NA	< 5	95%	80%	120%	103%	80%	120%	113%	70%	130%

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Methylmercury in Water, Total

Methylmercury, Total	1029	0.36	0.36	0.0%	< 0.03	96%	65%	135%	95%	65%	135%	101%	65%	135%
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Quality Assurance

CLIENT NAME: ANACONDA MINING

PROJECT: Goldboro SW

SAMPLING SITE:

AGAT WORK ORDER: 21X833826

ATTENTION TO: COLETTE DECKER

SAMPLED BY:

Water Analysis (Continued)

RPT Date: Jan 18, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Mercury, Total - MWAL

Total Mercury	3237267	3237267	< 0.016	< 0.016	0.0%	< 0.016	106%	80%	120%	110%	80%	120%	106%	70%	130%
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Mercury Analysis in Water (Dissolved) - CCME Marine Aquatic Life (MAL)

Dissolved Mercury	3241029	3241029	0.025	0.025	NA	< 0.016	111%	80%	120%	107%	80%	120%	102%	70%	130%
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Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Chlorophyll-a Water (µg/L)

Chlorophyll-a	1	SPK	862	904	4.8%	< 0.25	107%	85%	115%
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Water Analysis - TOC/DOC

Total Organic Carbon	3241033	3241033	5	5	2.1%	< 1	116%	80%	120%	112%	80%	120%	99%	80%	120%
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Dissolved Organic Carbon (DOC)	3241036	3241036	24	24	0.5%	< 1	116%	80%	120%	112%	80%	120%	111%	80%	120%
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Comments: Matrix spike NA: Spike level < native concentration. Matrix spike acceptance limits do not apply and are not calculated.

Duplicate NA: results are less than 5X the RDL and RDP will not be calculated.

Certified By:



Method Summary

CLIENT NAME: ANACONDA MINING

PROJECT: Goldboro SW

SAMPLING SITE:

AGAT WORK ORDER: 21X833826

ATTENTION TO: COLETTE DECKER

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Chlorophyll-a		SM 10200 H	SPECTROPHOTOMETER
Phaeophytin		SM 10200 H	SPECTROPHOTOMETER
Dissolved Aluminum	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Antimony	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Arsenic	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Barium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Beryllium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Bismuth	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Boron	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Cadmium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Chromium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Cobalt	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Copper	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Iron	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Lead	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Manganese	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Molybdenum	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Nickel	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Selenium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Silver	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Strontium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Thallium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Tin	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Titanium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Uranium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Vanadium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Zinc	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Dissolved Mercury	MET-121-6100 & MET-121-6107	SM 3112 B	CV/AA

Method Summary

CLIENT NAME: ANACONDA MINING

PROJECT: Goldboro SW

SAMPLING SITE:

AGAT WORK ORDER: 21X833826

ATTENTION TO: COLETTE DECKER

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Mercury Digest	MET-121-6100 & MET-121-6107	EPA 245.5	CV/AA
Total Mercury	MET-121-6100 & MET-121-6107	SM 3112 B	CV/AA
Methylmercury, Total	MET-121-6116 & MET-121-6117	EPA 1630	CV/AFS
pH	INOR-121-6001	SM 4500 H+B	PC TITRATE
Reactive Silica as SiO ₂	INOR-121-6027	SM 4500-SiO ₂ F	COLORIMETER
Chloride	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Fluoride	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Sulphate	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Alkalinity	INOR-121-6001	SM 2320 B	
True Color	INOR-121-6008	SM 2120 B	LACHAT FIA
Turbidity	INOR-121-6022	SM 2130 B	NEPHELOMETER
Electrical Conductivity	INOR-121-6001	SM 2510 B	PC TITRATE
Nitrate + Nitrite as N	INORG-121-6005	SM 4110 B	CALCULATION
Nitrate as N	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Nitrite as N	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Ammonia as N	INOR-121-6047	SM 4500-NH ₃ H	COLORIMETER
Ortho-Phosphate as P	INOR-121-6012	SM 4500-P G	COLORIMETER
Total Sodium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Potassium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Calcium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Magnesium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Bicarb. Alkalinity (as CaCO ₃)	INORG-121-6001	SM 2320 B	PC TITRATE
Carb. Alkalinity (as CaCO ₃)	INORG-121-6001	SM 2320 B	PC TITRATE
Hydroxide	INORG-121-6001	SM 2320 B	PC-TITRATE
Calculated TDS	CALCULATION	SM 1030E	CALCULATION
Hardness	CALCULATION	SM 2340B	CALCULATION
Langelier Index (@20C)	CALCULATION	CALCULATION	CALCULATION
Langelier Index (@ 4C)	CALCULATION	CALCULATION	CALCULATION
Saturation pH (@ 20C)	CALCULATION	CALCULATION	CALCULATION
Saturation pH (@ 4C)	CALCULATION	CALCULATION	CALCULATION
Anion Sum	CALCULATION	SM 1030E	CALCULATION
Cation sum	CALCULATION	SM 1030E	CALCULATION
% Difference/ Ion Balance	CALCULATION	SM 1030E	CALCULATION
Total Aluminum	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Antimony	MET121-6104 & MET-121-6105	SM 3125	ICP-MS
Total Arsenic	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Barium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Beryllium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Bismuth	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS

Method Summary

CLIENT NAME: ANACONDA MINING

PROJECT: Goldboro SW

SAMPLING SITE:

AGAT WORK ORDER: 21X833826

ATTENTION TO: COLETTE DECKER

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Total Boron	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Cadmium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Chromium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Cobalt	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Copper	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Iron	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Lead	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Manganese	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Molybdenum	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Nickel	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Phosphorous	MET-121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Selenium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Silver	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Strontium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Thallium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Tin	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Titanium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Uranium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Vanadium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Zinc	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Organic Carbon	INST 0170	SM 5310 B	COMBUSTION
Dissolved Organic Carbon (DOC)	INST 0170	SM 5310 B	COMBUSTION

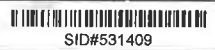
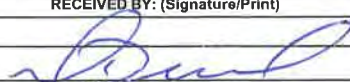


Chain Of Custody Record

INVOICE TO:				Report Information				Project Information				Laboratory Use Only			
Company Name #21731 Anaconda Mining Inc				Company Name #25503 Anaconda Mining Inc				Quotation # C11569				Bureau Veritas Job #		Bottle Order #:	
Contact Name Accounts Payable- Goldboro				Contact Name Derek Bullock				P.O. # 0207				21x833826			
Address 303-311 Highway 410 PO Box 238 Baie Verte NL A0K 1B0				Address 570 Goldbrook Road Goldboro NS B0H 1L0				Project # Goldboro SW				Chain Of Custody Record		Project Manager	
Phone (709) 800-7332 Fax:				Phone (902) 221-0331 Fax:				Project Name						Atena Georgescu	
Email ZVahed@anacondamining.com, bfrancis@anacondami				Email dbullock@anacondamining.com				Site # PB, BL				C#855354-01-01			
Regulatory Criteria:				Special Instructions				ANALYSIS REQUESTED (PLEASE BE SPECIFIC)				Turnaround Time (TAT) Required:			
** Specify Matrix: Surface/Ground/Tapwater/Sewage/Effluent/Seawater Potable/Nonpotable/Tissue/Soil/Sludge/Metal				Field Filtered & Preserved Lab Filtration Required MS only				Atlantic RCap-MS Total Metals in Water Metals Water Diss. MS (as rec'd) Mercury - Total (CVAA,LL) Mercury - Dissolved (CVAA,LL) Organic carbon - Diss (DOC) Methyl Mercury (sub from Bedford) Chlorophyll A (Sub from Bedford)				Please provide advance notice for rush projects			
												Regular (Standard) TAT: (will be applied if Push TAT is not specified): Standard TAT = 5-7 Working days for most tests.. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.			
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS												Job Specific Rush TAT (If applies to entire submission) Date Required: Time Required:			
Sample Barcode Label		Sample (Location) Identification		Date Sampled		Time Sampled		Matrix		# of Bottles		Comments / Hazards / Other Required Analysis			
1 SID#531399		SW-11-21		13:29		21/11/21		SW							
2 SID#531400		SW-12-21		10:55		21/11/22		1				'21NOV23 4:00 PM			
3 SID#531401		SW-13-21		08:15		21/11/22		1							
4 SID#531402		SW-14-21		08:45		21/11/22		1							
5 SID#531403		SW-15-21		12:16		21/11/21		1							
6 SID#531404		SW-16-21		16:14		21/11/21		XX				Hg field filtered			
7 SID#531405		SW-17-21		14:57		21/11/21		1							
8 SID#531406		SW-18-21		09:00		21/11/21		1							
9 SID#531407		SW-19-21		09:36		21/11/21		1							
10 SID#531408		SW-20-21		09:43		21/11/22		1							
* RELINQUISHED BY: (Signature/Print)				Date: (YY/MM/DD)		Time		RECEIVED BY: (Signature/Print)				Date: (YY/MM/DD)		Time	
Derek Bullock / Derek Bullock				21/11/22		15:08									
# jars used and not submitted				Time Sensitive		Temperature (°C) on Receipt		Custody Seal Intact on Cooler?				Yes		No	
				☐		14.14.18		☐							
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.												White: Bureau Veritas Yellow: Client			
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.												Cooler, ice			



Chain Of Custody Record

INVOICE TO:				Report Information				Project Information				Laboratory Use Only							
Company Name #21731 Anaconda Mining Inc				Company Name #25503 Anaconda Mining Inc				Quotation # C11569				Bureau Veritas Job #		Bottle Order #:					
Contact Name Accounts Payable- Goldboro				Contact Name Derek Bullock				P.O #				21x833826							
Address 303-311 Highway 410 PO Box 238 Baie Verte NL A0K 1B0				Address 570 Goldbrook Road Goldboro NS B0H 1L0				Project #				Chain Of Custody Record		Project Manager					
Phone (709) 800-7332 Fax:				Phone (902) 221-0331 Fax:				Project Name						Alena Georgescu					
Email ZVahed@anacondamining.com, bfrancis@anacondami				Email dbullock@anacondamining.com				Site #				C#855354-02-01							
Regulatory Criteria:				Special Instructions				ANALYSIS REQUESTED (PLEASE BE SPECIFIC)				Turnaround Time (TAT) Required:							
** Specify Matrix: Surface/Ground/Tapwater/Sewage/Effluent/Seawater Potable/Nonpotable/Tissue/Soil/Sludge/Metal				Field Filtered & Preserved				Lab Filtration Required				Please provide advance notice for rush projects							
												Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests.. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.							
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS												Job Specific Rush TAT (If applies to entire submission) Date Required: Time Required:							
												# of Bottles Comments / Hazards / Other Required Analysis							
1  SID#531409				SWDUPA				21/1/22 12:00 SW				X							
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
* RELINQUISHED BY: (Signature/Print)				Date: (YY/MM/DD)		Time		RECEIVED BY: (Signature/Print)				Date: (YY/MM/DD)		Time		# jars used and not submitted		Lab Use Only	
Derek Bullock / Derek Bullock				21/1/22		12:00												Time Sensitive ☐ Temperature (°C) on Receipt 14.14.18 Custody Seal Intact on Cooler? ☐ Yes ☐ No	
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.																		White: Bureau Veritas Yellow: Client	
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.																		Cooler, ice	



Your P.O. #: 0267
 Your Project #: GOLDBORO
 Your C.O.C. #: D55080, D55081

Attention: Derek Bullock

Anaconda Mining Inc
 Goldboro Gold Mine
 570 Goldbrook Road
 Goldboro, NS
 Canada BOH 1L0

Report Date: 2022/01/25
 Report #: R6975525
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1Y7042

Received: 2021/12/10, 11:35

Sample Matrix: Surface Water
 # Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Carbonate, Bicarbonate and Hydroxide	2	N/A	2022/01/10	N/A	SM 23 4500-CO2 D
Carbonate, Bicarbonate and Hydroxide	9	N/A	2021/12/17	N/A	SM 23 4500-CO2 D
Alkalinity	11	N/A	2021/12/20	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	11	N/A	2021/12/20	ATL SOP 00014	SM 23 4500-Cl- E m
Colour	11	N/A	2021/12/20	ATL SOP 00020	SM 23 2120C m
Organic carbon - Diss (DOC) (3)	1	N/A	2022/01/24	ATL SOP 00203	SM 23 5310B m
Organic carbon - Diss (DOC) (3)	6	N/A	2021/12/17	ATL SOP 00203	SM 23 5310B m
Organic carbon - Diss (DOC) (3)	2	N/A	2021/12/18	ATL SOP 00203	SM 23 5310B m
Organic carbon - Diss (DOC) (3)	2	N/A	2021/12/20	ATL SOP 00203	SM 23 5310B m
Conductance - water	2	N/A	2022/01/04	ATL SOP 00004	SM 23 2510B m
Conductance - water	9	N/A	2021/12/16	ATL SOP 00004	SM 23 2510B m
Hardness (calculated as CaCO3)	11	N/A	2021/12/18	ATL SOP 00048	Auto Calc
Mercury - Dissolved (CVAA,LL)	11	2022/01/05	2022/01/05	ATL SOP 00026	EPA 245.1 R3 m
Mercury - Total (CVAA,LL)	4	2022/01/04	2022/01/04	ATL SOP 00026	EPA 245.1 R3 m
Mercury - Total (CVAA,LL)	7	2022/01/05	2022/01/05	ATL SOP 00026	EPA 245.1 R3 m
Metals Water Diss. MS (as rec'd)	11	N/A	2021/12/17	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	4	2021/12/14	2021/12/15	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	7	2021/12/14	2021/12/16	ATL SOP 00058	EPA 6020B R2 m
Ion Balance (% Difference)	11	N/A	2022/01/14	N/A	Auto Calc.
Anion and Cation Sum	9	N/A	2022/01/01	N/A	Auto Calc.
Anion and Cation Sum	2	N/A	2022/01/10	N/A	Auto Calc.
Nitrogen Ammonia - water	11	N/A	2021/12/20	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	11	N/A	2021/12/21	ATL SOP 00016	USGS I-2547-11m
Nitrogen - Nitrite	11	N/A	2021/12/20	ATL SOP 00017	SM 23 4500-NO2- B m
Nitrogen - Nitrate (as N)	11	N/A	2022/01/14	ATL SOP 00018	ASTM D3867-16
pH (4)	2	N/A	2022/01/04	ATL SOP 00003	SM 23 4500-H+ B m
pH (4)	9	N/A	2021/12/16	ATL SOP 00003	SM 23 4500-H+ B m
Phosphorus - ortho	11	N/A	2021/12/20	ATL SOP 00021	SM 23 4500-P E m
Sat. pH and Langelier Index (@ 20C)	11	N/A	2022/01/14	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	11	N/A	2022/01/14	ATL SOP 00049	Auto Calc.
Reactive Silica	11	N/A	2021/12/20	ATL SOP 00022	EPA 366.0 m



Your P.O. #: 0267
 Your Project #: GOLDBORO
 Your C.O.C. #: D55080, D55081

Attention: Derek Bullock

Anaconda Mining Inc
 Goldboro Gold Mine
 570 Goldbrook Road
 Goldboro, NS
 Canada BOH 1L0

Report Date: 2022/01/25
 Report #: R6975525
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1Y7042

Received: 2021/12/10, 11:35

Sample Matrix: Surface Water
 # Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Sulphate	11	N/A	2021/12/20	ATL SOP 00023	ASTM D516-16 m
Chlorophyll A (Sub from Bedford) (1)	11	2021/12/24	2021/12/23		
Methyl Mercury (sub from Bedford) (2)	11	N/A	2021/12/21		EPA 1630
Total Dissolved Solids (TDS calc)	11	N/A	2022/01/14	N/A	Auto Calc.
Organic carbon - Total (TOC) (3)	11	N/A	2021/12/16	ATL SOP 00203	SM 23 5310B m
Turbidity	11	N/A	2021/12/17	ATL SOP 00011	EPA 180.1 R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Dalhousie University, 1355 Oxford Street Dept of Oceanography Rm 2605, Halifax, NS, B3H 4R2

(2) This test was performed by Flett Research Ltd., 440 DeSalaberry Ave., Winnipeg, MB, R2L0Y7

(3) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

(4) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.



Your P.O. #: 0267
Your Project #: GOLDBORO
Your C.O.C. #: D55080, D55081

Attention: Derek Bullock

Anaconda Mining Inc
Goldboro Gold Mine
570 Goldbrook Road
Goldboro, NS
Canada BOH 1L0

Report Date: 2022/01/25
Report #: R6975525
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1Y7042

Received: 2021/12/10, 11:35

Encryption Key



Bureau Veritas
25 Jan 2022 08:46:56

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Atena Georgescu, Project Manager II

Email: Atena.Georgescu@bureauveritas.com

Phone# (902)420-0203 Ext:239

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This report has been generated and distributed using a secure automated process.

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RESULTS OF ANALYSES OF SURFACE WATER

Bureau Veritas ID		RID285		RID286			RID287		
Sampling Date		2021/12/06 09:21		2021/12/06 11:33			2021/12/07 11:30		
COC Number		D55080		D55080			D55080		
	UNITS	SW-11-21	RDL	SW-12-21	RDL	QC Batch	SW-13-21	RDL	QC Batch
Calculated Parameters									
Anion Sum	me/L	0.260	N/A	0.190	N/A	7721162	0.230	N/A	7721162
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	<1.0	1.0	7721158	<1.0	1.0	7721158
Calculated TDS	mg/L	22	1.0	16	1.0	7721167	16	1.0	7721167
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	<1.0	1.0	7721158	<1.0	1.0	7721158
Cation Sum	me/L	0.380	N/A	0.310	N/A	7721162	0.310	N/A	7721162
Hardness (CaCO ₃)	mg/L	5.9	1.0	4.3	1.0	7721160	3.5	1.0	7721160
Ion Balance (% Difference)	%	18.8	N/A	24.0	N/A	7721161	14.8	N/A	7721161
Langelier Index (@ 20C)	N/A	NC		NC		7721165	NC		7721165
Langelier Index (@ 4C)	N/A	NC		NC		7721166	NC		7721166
Nitrate (N)	mg/L	<0.050	0.050	<0.050	0.050	7721163	<0.050	0.050	7721163
Saturation pH (@ 20C)	N/A	NC		NC		7721165	NC		7721165
Saturation pH (@ 4C)	N/A	NC		NC		7721166	NC		7721166
Inorganics									
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	<5.0	5.0	7741264	<5.0	5.0	7741264
Dissolved Chloride (Cl ⁻)	mg/L	9.3	1.0	6.6	1.0	7741273	8.1	1.0	7741273
Colour	TCU	160	25	190	24	7741277	150	25	7741277
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	<0.050	0.050	7741279	<0.050	0.050	7741279
Nitrite (N)	mg/L	<0.010	0.010	<0.010	0.010	7741280	<0.010	0.010	7741280
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	<0.050	0.050	7740973	<0.050	0.050	7740973
Dissolved Organic Carbon (C)	mg/L	15	0.50	17	0.50	7734661	16	0.50	7741050
Total Organic Carbon (C)	mg/L	16	0.50	18	0.50	7730581	16	0.50	7730559
Orthophosphate (P)	mg/L	<0.010	0.010	<0.010	0.010	7741278	<0.010	0.010	7741278
pH	pH	5.14		4.68		7731913	4.38		7731913
Reactive Silica (SiO ₂)	mg/L	4.5	0.50	3.3	0.50	7741276	2.2	0.50	7741276
Dissolved Sulphate (SO ₄)	mg/L	<2.0	2.0	<2.0	2.0	7741275	<2.0	2.0	7741275
Turbidity	NTU	2.7	0.10	0.87	0.10	7734998	2.1	0.10	7734998
Conductivity	uS/cm	48	1.0	42	1.0	7731895	47	1.0	7731895
Subcontracted Analysis									
Subcontract Parameter	N/A	ATTACHED	N/A	ATTACHED	N/A	7754026	ATTACHED	N/A	7754026
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									



RESULTS OF ANALYSES OF SURFACE WATER

Bureau Veritas ID		RID288			RID289			RID290		
Sampling Date		2021/12/07 12:00			2021/12/07 10:30			2021/12/07 14:00		
COC Number		D55080			D55080			D55080		
	UNITS	SW-14-21	RDL	QC Batch	SW-15-21	RDL	QC Batch	SW-16-21	RDL	QC Batch

Calculated Parameters										
Anion Sum	me/L	0.190	N/A	7721162	0.170	N/A	7721162	0.230	N/A	7721162
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7721158	<1.0	1.0	7721158	<1.0	1.0	7721158
Calculated TDS	mg/L	15	1.0	7721167	13	1.0	7721167	16	1.0	7721167
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7721158	<1.0	1.0	7721158	<1.0	1.0	7721158
Cation Sum	me/L	0.320	N/A	7721162	0.230	N/A	7721162	0.300	N/A	7721162
Hardness (CaCO ₃)	mg/L	3.9	1.0	7721160	3.0	1.0	7721160	3.6	1.0	7721160
Ion Balance (% Difference)	%	25.5	N/A	7721161	15.0	N/A	7721161	13.2	N/A	7721161
Langelier Index (@ 20C)	N/A	NC		7721165	NC		7721165	NC		7721165
Langelier Index (@ 4C)	N/A	NC		7721166	NC		7721166	NC		7721166
Nitrate (N)	mg/L	<0.050	0.050	7721163	0.054	0.050	7721163	<0.050	0.050	7721163
Saturation pH (@ 20C)	N/A	NC		7721165	NC		7721165	NC		7721165
Saturation pH (@ 4C)	N/A	NC		7721166	NC		7721166	NC		7721166

Inorganics										
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7741264	<5.0	5.0	7741264	<5.0	5.0	7741264
Dissolved Chloride (Cl ⁻)	mg/L	6.9	1.0	7741273	6.1	1.0	7741273	8.0	1.0	7741273
Colour	TCU	150	25	7741277	48	5.0	7741277	170	25	7741277
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	7741279	0.054	0.050	7741279	<0.050	0.050	7741279
Nitrite (N)	mg/L	<0.010	0.010	7741280	<0.010	0.010	7741280	<0.010	0.010	7741280
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7740973	<0.050	0.050	7740973	<0.050	0.050	7740973
Dissolved Organic Carbon (C)	mg/L	15	0.50	7734661	5.5	0.50	7734682	17	0.50	7734682
Total Organic Carbon (C)	mg/L	16	0.50	7730581	5.8	0.50	7730581	18	0.50	7730559
Orthophosphate (P)	mg/L	<0.010	0.010	7741278	<0.010	0.010	7741278	<0.010	0.010	7741278
pH	pH	4.42		7731913	5.44		7761358	4.32		7731913
Reactive Silica (SiO ₂)	mg/L	2.0	0.50	7741276	1.8	0.50	7741276	2.1	0.50	7741276
Dissolved Sulphate (SO ₄)	mg/L	<2.0	2.0	7741275	<2.0	2.0	7741275	<2.0	2.0	7741275
Turbidity	NTU	3.1	0.10	7734998	0.56	0.10	7734998	2.1	0.10	7734998
Conductivity	uS/cm	47	1.0	7731895	28	1.0	7761351	48	1.0	7731895

Subcontracted Analysis										
Subcontract Parameter	N/A	ATTACHED	N/A	7754026	ATTACHED	N/A	7754026	ATTACHED	N/A	7754026
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
N/A = Not Applicable										



RESULTS OF ANALYSES OF SURFACE WATER

Bureau Veritas ID		RID291	RID292		RID293		RID294		
Sampling Date		2021/12/07 15:30	2021/12/06 09:57		2021/12/06 10:12		2021/12/07 12:00		
COC Number		D55080	D55080		D55080		D55080		
	UNITS	SW-17-21	SW-18-21	QC Batch	SW-19-21	QC Batch	SW-20-21	RDL	QC Batch

Calculated Parameters									
Anion Sum	me/L	0.200	0.210	7721162	0.230	7721162	0.230	N/A	7721162
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	<1.0	7721158	<1.0	7721158	<1.0	1.0	7721158
Calculated TDS	mg/L	14	18	7721167	17	7721167	17	1.0	7721167
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	<1.0	7721158	<1.0	7721158	<1.0	1.0	7721158
Cation Sum	me/L	0.300	0.320	7721162	0.310	7721162	0.320	N/A	7721162
Hardness (CaCO ₃)	mg/L	3.2	3.7	7721160	3.3	7721160	3.9	1.0	7721160
Ion Balance (% Difference)	%	20.0	20.8	7721161	14.8	7721161	16.4	N/A	7721161
Langelier Index (@ 20C)	N/A	NC	NC	7721165	NC	7721165	NC		7721165
Langelier Index (@ 4C)	N/A	NC	NC	7721166	NC	7721166	NC		7721166
Nitrate (N)	mg/L	<0.050	<0.050	7721163	<0.050	7721163	<0.050	0.050	7721163
Saturation pH (@ 20C)	N/A	NC	NC	7721165	NC	7721165	NC		7721165
Saturation pH (@ 4C)	N/A	NC	NC	7721166	NC	7721166	NC		7721166

Inorganics									
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	<5.0	7741264	<5.0	7741264	<5.0	5.0	7741264
Dissolved Chloride (Cl ⁻)	mg/L	7.1	7.5	7741273	8.0	7741273	8.3	1.0	7741273
Colour	TCU	180	200	7741277	220	7741277	180	25	7741277
Nitrate + Nitrite (N)	mg/L	<0.050	<0.050	7741279	<0.050	7741279	<0.050	0.050	7741279
Nitrite (N)	mg/L	<0.010	<0.010	7741280	<0.010	7741280	<0.010	0.010	7741280
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	<0.050	7740973	<0.050	7740973	<0.050	0.050	7740973
Dissolved Organic Carbon (C)	mg/L	17	17	7734661	18	7792742	17	0.50	7741050
Total Organic Carbon (C)	mg/L	18	18	7730581	28	7730581	17	0.50	7730559
Orthophosphate (P)	mg/L	<0.010	<0.010	7741278	<0.010	7741278	<0.010	0.010	7741278
pH	pH	4.27	4.56	7731913	4.42	7761358	4.41		7731913
Reactive Silica (SiO ₂)	mg/L	1.9	4.1	7741276	3.4	7741276	2.1	0.50	7741276
Dissolved Sulphate (SO ₄)	mg/L	<2.0	<2.0	7741275	<2.0	7741275	<2.0	2.0	7741275
Turbidity	NTU	2.2	0.79	7734998	33	7734998	4.0	0.10	7734998
Conductivity	uS/cm	49	41	7731895	47	7761351	47	1.0	7731895

Subcontracted Analysis									
Subcontract Parameter	N/A	ATTACHED	ATTACHED	7754026	ATTACHED	7754026	ATTACHED	N/A	7754026

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable



RESULTS OF ANALYSES OF SURFACE WATER

Bureau Veritas ID		RID319		
Sampling Date		2021/12/06 12:00		
COC Number		D55081		
	UNITS	SW-DUP	RDL	QC Batch
Calculated Parameters				
Anion Sum	me/L	0.230	N/A	7721162
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7721158
Calculated TDS	mg/L	18	1.0	7721167
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	<1.0	1.0	7721158
Cation Sum	me/L	0.320	N/A	7721162
Hardness (CaCO ₃)	mg/L	4.2	1.0	7721160
Ion Balance (% Difference)	%	16.4	N/A	7721161
Langelier Index (@ 20C)	N/A	NC		7721165
Langelier Index (@ 4C)	N/A	NC		7721166
Nitrate (N)	mg/L	0.078	0.050	7721163
Saturation pH (@ 20C)	N/A	NC		7721165
Saturation pH (@ 4C)	N/A	NC		7721166
Inorganics				
Total Alkalinity (Total as CaCO ₃)	mg/L	<5.0	5.0	7741264
Dissolved Chloride (Cl ⁻)	mg/L	7.8	1.0	7741273
Colour	TCU	190	25	7741277
Nitrate + Nitrite (N)	mg/L	0.088	0.050	7741279
Nitrite (N)	mg/L	0.011	0.010	7741280
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	7741018
Dissolved Organic Carbon (C)	mg/L	17	0.50	7734661
Total Organic Carbon (C)	mg/L	17	0.50	7730559
Orthophosphate (P)	mg/L	<0.010	0.010	7741278
pH	pH	4.62		7731913
Reactive Silica (SiO ₂)	mg/L	3.0	0.50	7741276
Dissolved Sulphate (SO ₄)	mg/L	<2.0	2.0	7741275
Turbidity	NTU	1.8	0.10	7734998
Conductivity	uS/cm	42	1.0	7731895
Subcontracted Analysis				
Subcontract Parameter	N/A	ATTACHED	N/A	7754026
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable				



Bureau Veritas Job #: C1Y7042
Report Date: 2022/01/25

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

MERCURY BY COLD VAPOUR AA (SURFACE WATER)

Bureau Veritas ID		RID285	RID286	RID287		RID288	RID289		
Sampling Date		2021/12/06 09:21	2021/12/06 11:33	2021/12/07 11:30		2021/12/07 12:00	2021/12/07 10:30		
COC Number		D55080	D55080	D55080		D55080	D55080		
	UNITS	SW-11-21	SW-12-21	SW-13-21	QC Batch	SW-14-21	SW-15-21	RDL	QC Batch

Metals									
Dissolved Mercury (Hg)	ug/L	<0.013 (1)	<0.013 (1)	<0.013 (1)	7763754	<0.013 (1)	<0.013 (1)	0.013	7763754
Total Mercury (Hg)	ug/L	<0.013 (1)	<0.013 (1)	0.013 (1)	7763841	<0.013	<0.013	0.013	7762793
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
(1) Mercury analyzed past recommended hold time.									

Bureau Veritas ID		RID290		RID291		RID292	RID293	RID294		
Sampling Date		2021/12/07 14:00		2021/12/07 15:30		2021/12/06 09:57	2021/12/06 10:12	2021/12/07 12:00		
COC Number		D55080		D55080		D55080	D55080	D55080		
	UNITS	SW-16-21	QC Batch	SW-17-21	QC Batch	SW-18-21	SW-19-21	SW-20-21	RDL	QC Batch

Metals										
Dissolved Mercury (Hg)	ug/L	<0.013 (1)	7763754	<0.013 (1)	7763754	<0.013 (1)	<0.013 (1)	0.013 (1)	0.013	7763754
Total Mercury (Hg)	ug/L	<0.013 (1)	7763841	<0.013	7759301	<0.013 (1)	0.037 (1)	<0.013 (1)	0.013	7763841
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
(1) Mercury analyzed past recommended hold time.										

Bureau Veritas ID		RID319		
Sampling Date		2021/12/06 12:00		
COC Number		D55081		
	UNITS	SW-DUP	RDL	QC Batch

Metals				
Dissolved Mercury (Hg)	ug/L	<0.013 (1)	0.013	7763754
Total Mercury (Hg)	ug/L	<0.013 (1)	0.013	7759301
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				
(1) Mercury analyzed past recommended hold time.				



Bureau Veritas Job #: C1Y7042
Report Date: 2022/01/25

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

ELEMENTS BY ICP/MS (SURFACE WATER)

Bureau Veritas ID		RID285		RID286		RID287		
Sampling Date		2021/12/06 09:21		2021/12/06 11:33		2021/12/07 11:30		
COC Number		D55080		D55080		D55080		
	UNITS	SW-11-21	QC Batch	SW-12-21	QC Batch	SW-13-21	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	300	7734667	350	7734667	230	5.0	7734667
Total Aluminum (Al)	mg/L	0.336	7724410	0.370	7724700	0.264	0.0050	7724410
Dissolved Antimony (Sb)	ug/L	<1.0	7734667	<1.0	7734667	<1.0	1.0	7734667
Total Antimony (Sb)	mg/L	<0.0010	7724410	<0.0010	7724700	<0.0010	0.0010	7724410
Dissolved Arsenic (As)	ug/L	9.9	7734667	6.9	7734667	1.2	1.0	7734667
Total Arsenic (As)	mg/L	0.0211	7724410	0.0064	7724700	0.0015	0.0010	7724410
Dissolved Barium (Ba)	ug/L	3.1	7734667	3.3	7734667	2.6	1.0	7734667
Total Barium (Ba)	mg/L	0.0035	7724410	0.0033	7724700	0.0026	0.0010	7724410
Dissolved Beryllium (Be)	ug/L	<0.10	7734667	<0.10	7734667	<0.10	0.10	7734667
Total Beryllium (Be)	mg/L	<0.00010	7724410	<0.00010	7724700	<0.00010	0.00010	7724410
Dissolved Bismuth (Bi)	ug/L	<2.0	7734667	<2.0	7734667	<2.0	2.0	7734667
Total Bismuth (Bi)	mg/L	<0.0020	7724410	<0.0020	7724700	<0.0020	0.0020	7724410
Dissolved Boron (B)	ug/L	<50	7734667	<50	7734667	<50	50	7734667
Total Boron (B)	mg/L	<0.050	7724410	<0.050	7724700	<0.050	0.050	7724410
Dissolved Cadmium (Cd)	ug/L	0.018	7734667	0.018	7734667	0.017	0.010	7734667
Total Cadmium (Cd)	mg/L	0.000018	7724410	0.000019	7724700	0.000016	0.000010	7724410
Dissolved Calcium (Ca)	ug/L	1200	7734667	730	7734667	520	100	7734667
Total Calcium (Ca)	mg/L	1.29	7724410	0.71	7724700	0.52	0.10	7724410
Dissolved Chromium (Cr)	ug/L	<1.0	7734667	<1.0	7734667	<1.0	1.0	7734667
Total Chromium (Cr)	mg/L	<0.0010	7724410	<0.0010	7724700	<0.0010	0.0010	7724410
Dissolved Cobalt (Co)	ug/L	<0.40	7734667	<0.40	7734667	<0.40	0.40	7734667
Total Cobalt (Co)	mg/L	<0.00040	7724410	<0.00040	7724700	<0.00040	0.00040	7724410
Dissolved Copper (Cu)	ug/L	<0.50	7734667	<0.50	7734667	<0.50	0.50	7734667
Total Copper (Cu)	mg/L	<0.00050	7724410	<0.00050	7724700	<0.00050	0.00050	7724410
Dissolved Iron (Fe)	ug/L	460	7734667	470	7734667	290	50	7734667
Total Iron (Fe)	mg/L	0.629	7724410	0.529	7724700	0.341	0.050	7724410
Dissolved Lead (Pb)	ug/L	<0.50	7734667	0.58	7734667	<0.50	0.50	7734667
Total Lead (Pb)	mg/L	<0.00050	7724410	0.00064	7724700	0.00055	0.00050	7724410
Dissolved Magnesium (Mg)	ug/L	690	7734667	600	7734667	540	100	7734667
Total Magnesium (Mg)	mg/L	0.73	7724410	0.61	7724700	0.58	0.10	7724410
Dissolved Manganese (Mn)	ug/L	63	7734667	24	7734667	47	2.0	7734667
Total Manganese (Mn)	mg/L	0.0693	7724410	0.0247	7724700	0.0500	0.0020	7724410
Dissolved Molybdenum (Mo)	ug/L	<2.0	7734667	<2.0	7734667	<2.0	2.0	7734667
Total Molybdenum (Mo)	mg/L	<0.0020	7724410	<0.0020	7724700	<0.0020	0.0020	7724410
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



Bureau Veritas Job #: C1Y7042
Report Date: 2022/01/25

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

ELEMENTS BY ICP/MS (SURFACE WATER)

Bureau Veritas ID		RID285		RID286		RID287		
Sampling Date		2021/12/06 09:21		2021/12/06 11:33		2021/12/07 11:30		
COC Number		D55080		D55080		D55080		
	UNITS	SW-11-21	QC Batch	SW-12-21	QC Batch	SW-13-21	RDL	QC Batch
Dissolved Nickel (Ni)	ug/L	<2.0	7734667	<2.0	7734667	<2.0	2.0	7734667
Total Nickel (Ni)	mg/L	<0.0020	7724410	<0.0020	7724700	<0.0020	0.0020	7724410
Dissolved Phosphorus (P)	ug/L	<100	7734667	<100	7734667	<100	100	7734667
Total Phosphorus (P)	mg/L	<0.10	7724410	<0.10	7724700	<0.10	0.10	7724410
Dissolved Potassium (K)	ug/L	320	7734667	350	7734667	300	100	7734667
Total Potassium (K)	mg/L	0.38	7724410	0.34	7724700	0.31	0.10	7724410
Dissolved Selenium (Se)	ug/L	<0.50	7734667	<0.50	7734667	<0.50	0.50	7734667
Total Selenium (Se)	mg/L	<0.00050	7724410	<0.00050	7724700	<0.00050	0.00050	7724410
Dissolved Silver (Ag)	ug/L	<0.10	7734667	<0.10	7734667	<0.10	0.10	7734667
Total Silver (Ag)	mg/L	<0.00010	7724410	<0.00010	7724700	<0.00010	0.00010	7724410
Dissolved Sodium (Na)	ug/L	5300	7734667	4100	7734667	4100	100	7734667
Total Sodium (Na)	mg/L	5.50	7724410	4.43	7724700	4.25	0.10	7724410
Dissolved Strontium (Sr)	ug/L	9.6	7734667	8.0	7734667	6.1	2.0	7734667
Total Strontium (Sr)	mg/L	0.0101	7724410	0.0078	7724700	0.0064	0.0020	7724410
Dissolved Thallium (Tl)	ug/L	<0.10	7734667	<0.10	7734667	<0.10	0.10	7734667
Total Thallium (Tl)	mg/L	<0.00010	7724410	<0.00010	7724700	<0.00010	0.00010	7724410
Dissolved Tin (Sn)	ug/L	<2.0	7734667	<2.0	7734667	<2.0	2.0	7734667
Total Tin (Sn)	mg/L	<0.0020	7724410	<0.0020	7724700	<0.0020	0.0020	7724410
Dissolved Titanium (Ti)	ug/L	3.6	7734667	3.5	7734667	2.7	2.0	7734667
Total Titanium (Ti)	mg/L	0.0065	7724410	0.0050	7724700	0.0052	0.0020	7724410
Dissolved Uranium (U)	ug/L	<0.10	7734667	<0.10	7734667	<0.10	0.10	7734667
Total Uranium (U)	mg/L	<0.00010	7724410	<0.00010	7724700	<0.00010	0.00010	7724410
Dissolved Vanadium (V)	ug/L	<2.0	7734667	<2.0	7734667	<2.0	2.0	7734667
Total Vanadium (V)	mg/L	<0.0020	7724410	<0.0020	7724700	<0.0020	0.0020	7724410
Dissolved Zinc (Zn)	ug/L	<5.0	7734667	<5.0	7734667	<5.0	5.0	7734667
Total Zinc (Zn)	mg/L	<0.0050	7724410	<0.0050	7724700	<0.0050	0.0050	7724410
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



Bureau Veritas Job #: C1Y7042
Report Date: 2022/01/25

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

ELEMENTS BY ICP/MS (SURFACE WATER)

Bureau Veritas ID		RID288	RID289		RID290		RID291		
Sampling Date		2021/12/07 12:00	2021/12/07 10:30		2021/12/07 14:00		2021/12/07 15:30		
COC Number		D55080	D55080		D55080		D55080		
	UNITS	SW-14-21	SW-15-21	QC Batch	SW-16-21	QC Batch	SW-17-21	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	210	120	7734667	230	7734667	240	5.0	7734667
Total Aluminum (Al)	mg/L	0.272	0.142	7724700	0.275	7724700	0.277	0.0050	7724410
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	7734667	<1.0	7734667	<1.0	1.0	7734667
Total Antimony (Sb)	mg/L	<0.0010	<0.0010	7724700	<0.0010	7724700	<0.0010	0.0010	7724410
Dissolved Arsenic (As)	ug/L	1.1	<1.0	7734667	<1.0	7734667	<1.0	1.0	7734667
Total Arsenic (As)	mg/L	0.0017	<0.0010	7724700	<0.0010	7724700	<0.0010	0.0010	7724410
Dissolved Barium (Ba)	ug/L	3.1	2.1	7734667	2.9	7734667	2.5	1.0	7734667
Total Barium (Ba)	mg/L	0.0031	0.0021	7724700	0.0031	7724700	0.0025	0.0010	7724410
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	7734667	<0.10	7734667	<0.10	0.10	7734667
Total Beryllium (Be)	mg/L	<0.00010	<0.00010	7724700	<0.00010	7724700	<0.00010	0.00010	7724410
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	7734667	<2.0	7734667	<2.0	2.0	7734667
Total Bismuth (Bi)	mg/L	<0.0020	<0.0020	7724700	<0.0020	7724700	<0.0020	0.0020	7724410
Dissolved Boron (B)	ug/L	<50	<50	7734667	<50	7734667	<50	50	7734667
Total Boron (B)	mg/L	<0.050	<0.050	7724700	<0.050	7724700	<0.050	0.050	7724410
Dissolved Cadmium (Cd)	ug/L	0.019	0.011	7734667	0.021	7734667	0.025	0.010	7734667
Total Cadmium (Cd)	mg/L	0.000017	<0.000010	7724700	0.000022	7724700	0.000016	0.000010	7724410
Dissolved Calcium (Ca)	ug/L	670	460	7734667	560	7734667	520	100	7734667
Total Calcium (Ca)	mg/L	0.67	0.47	7724700	0.57	7724700	0.52	0.10	7724410
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	7734667	<1.0	7734667	<1.0	1.0	7734667
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	7724700	<0.0010	7724700	<0.0010	0.0010	7724410
Dissolved Cobalt (Co)	ug/L	<0.40	<0.40	7734667	<0.40	7734667	<0.40	0.40	7734667
Total Cobalt (Co)	mg/L	<0.00040	<0.00040	7724700	<0.00040	7724700	<0.00040	0.00040	7724410
Dissolved Copper (Cu)	ug/L	<0.50	<0.50	7734667	<0.50	7734667	<0.50	0.50	7734667
Total Copper (Cu)	mg/L	<0.00050	<0.00050	7724700	<0.00050	7741162	<0.00050	0.00050	7724410
Dissolved Iron (Fe)	ug/L	220	140	7734667	220	7734667	190	50	7734667
Total Iron (Fe)	mg/L	0.296	0.258	7724700	0.268	7724700	0.226	0.050	7724410
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	7734667	0.59	7734667	0.55	0.50	7734667
Total Lead (Pb)	mg/L	0.00084	<0.00050	7724700	0.00072	7724700	0.00060	0.00050	7724410
Dissolved Magnesium (Mg)	ug/L	530	460	7734667	530	7734667	470	100	7734667
Total Magnesium (Mg)	mg/L	0.56	0.48	7724700	0.59	7724700	0.51	0.10	7724410
Dissolved Manganese (Mn)	ug/L	24	21	7734667	14	7734667	13	2.0	7734667
Total Manganese (Mn)	mg/L	0.0257	0.0245	7724700	0.0153	7724700	0.0137	0.0020	7724410
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	7734667	<2.0	7734667	<2.0	2.0	7734667
Total Molybdenum (Mo)	mg/L	<0.0020	<0.0020	7724700	<0.0020	7724700	<0.0020	0.0020	7724410
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



Bureau Veritas Job #: C1Y7042

Report Date: 2022/01/25

Anaconda Mining Inc

Client Project #: GOLDBORO

Your P.O. #: 0267

Sampler Initials: DB

ELEMENTS BY ICP/MS (SURFACE WATER)

Bureau Veritas ID		RID288	RID289		RID290		RID291		
Sampling Date		2021/12/07 12:00	2021/12/07 10:30		2021/12/07 14:00		2021/12/07 15:30		
COC Number		D55080	D55080		D55080		D55080		
	UNITS	SW-14-21	SW-15-21	QC Batch	SW-16-21	QC Batch	SW-17-21	RDL	QC Batch
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	7734667	<2.0	7734667	<2.0	2.0	7734667
Total Nickel (Ni)	mg/L	<0.0020	<0.0020	7724700	<0.0020	7724700	<0.0020	0.0020	7724410
Dissolved Phosphorus (P)	ug/L	<100	<100	7734667	<100	7734667	<100	100	7734667
Total Phosphorus (P)	mg/L	<0.10	<0.10	7724700	<0.10	7724700	<0.10	0.10	7724410
Dissolved Potassium (K)	ug/L	310	300	7734667	280	7734667	310	100	7734667
Total Potassium (K)	mg/L	0.33	0.32	7724700	0.30	7724700	0.33	0.10	7724410
Dissolved Selenium (Se)	ug/L	<0.50	<0.50	7734667	<0.50	7734667	<0.50	0.50	7734667
Total Selenium (Se)	mg/L	<0.00050	<0.00050	7724700	<0.00050	7724700	<0.00050	0.00050	7724410
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	7734667	<0.10	7734667	<0.10	0.10	7734667
Total Silver (Ag)	mg/L	<0.00010	<0.00010	7724700	<0.00010	7724700	<0.00010	0.00010	7724410
Dissolved Sodium (Na)	ug/L	4200	3500	7734667	3900	7734667	3900	100	7734667
Total Sodium (Na)	mg/L	4.40	3.79	7724700	4.26	7724700	4.19	0.10	7724410
Dissolved Strontium (Sr)	ug/L	7.1	5.4	7734667	6.8	7734667	5.9	2.0	7734667
Total Strontium (Sr)	mg/L	0.0068	0.0053	7724700	0.0071	7724700	0.0060	0.0020	7724410
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	7734667	<0.10	7734667	<0.10	0.10	7734667
Total Thallium (Tl)	mg/L	<0.00010	<0.00010	7724700	<0.00010	7724700	<0.00010	0.00010	7724410
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	7734667	<2.0	7734667	<2.0	2.0	7734667
Total Tin (Sn)	mg/L	<0.0020	<0.0020	7724700	<0.0020	7724700	<0.0020	0.0020	7724410
Dissolved Titanium (Ti)	ug/L	2.6	<2.0	7734667	2.9	7734667	3.1	2.0	7734667
Total Titanium (Ti)	mg/L	0.0057	<0.0020	7724700	0.0052	7724700	0.0051	0.0020	7724410
Dissolved Uranium (U)	ug/L	<0.10	<0.10	7734667	<0.10	7734667	<0.10	0.10	7734667
Total Uranium (U)	mg/L	<0.00010	<0.00010	7724700	<0.00010	7724700	<0.00010	0.00010	7724410
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	7734667	<2.0	7734667	<2.0	2.0	7734667
Total Vanadium (V)	mg/L	<0.0020	<0.0020	7724700	<0.0020	7724700	<0.0020	0.0020	7724410
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	7734667	<5.0	7734667	<5.0	5.0	7734667
Total Zinc (Zn)	mg/L	<0.0050	<0.0050	7724700	<0.0050	7724700	<0.0050	0.0050	7724410
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



ELEMENTS BY ICP/MS (SURFACE WATER)

Bureau Veritas ID		RID292	RID293	RID294	RID319		
Sampling Date		2021/12/06 09:57	2021/12/06 10:12	2021/12/07 12:00	2021/12/06 12:00		
COC Number		D55080	D55080	D55080	D55081		
	UNITS	SW-18-21	SW-19-21	SW-20-21	SW-DUP	RDL	QC Batch
Metals							
Dissolved Aluminum (Al)	ug/L	320	280	360	350	5.0	7734667
Total Aluminum (Al)	mg/L	0.344	0.468	0.541	0.377	0.0050	7724410
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	7734667
Total Antimony (Sb)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	7724410
Dissolved Arsenic (As)	ug/L	1.1	1.1	3.9	6.8	1.0	7734667
Total Arsenic (As)	mg/L	0.0013	0.0021	0.0046	0.0103	0.0010	7724410
Dissolved Barium (Ba)	ug/L	2.5	1.5	3.1	3.2	1.0	7734667
Total Barium (Ba)	mg/L	0.0025	0.0027	0.0034	0.0033	0.0010	7724410
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7734667
Total Beryllium (Be)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	7724410
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7734667
Total Bismuth (Bi)	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7724410
Dissolved Boron (B)	ug/L	<50	<50	<50	<50	50	7734667
Total Boron (B)	mg/L	<0.050	<0.050	<0.050	<0.050	0.050	7724410
Dissolved Cadmium (Cd)	ug/L	0.021	0.014	0.022	0.022	0.010	7734667
Total Cadmium (Cd)	mg/L	0.000014	0.000019	0.000021	0.000017	0.000010	7724410
Dissolved Calcium (Ca)	ug/L	530	590	590	710	100	7734667
Total Calcium (Ca)	mg/L	0.58	0.73	0.61	0.75	0.10	7724410
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	7734667
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	7724410
Dissolved Cobalt (Co)	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	7734667
Total Cobalt (Co)	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	0.00040	7724410
Dissolved Copper (Cu)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	7734667
Total Copper (Cu)	mg/L	<0.00050	0.00166	0.00051	<0.00050	0.00050	7724410
Dissolved Iron (Fe)	ug/L	820	720	380	470	50	7734667
Total Iron (Fe)	mg/L	0.918	1.26	0.614	0.547	0.050	7724410
Dissolved Lead (Pb)	ug/L	0.54	0.71	0.63	0.58	0.50	7734667
Total Lead (Pb)	mg/L	0.00057	0.00208	0.00083	0.00064	0.00050	7724410
Dissolved Magnesium (Mg)	ug/L	590	440	590	590	100	7734667
Total Magnesium (Mg)	mg/L	0.64	0.51	0.65	0.63	0.10	7724410
Dissolved Manganese (Mn)	ug/L	170	24	39	24	2.0	7734667
Total Manganese (Mn)	mg/L	0.177	0.0280	0.0413	0.0250	0.0020	7724410
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7734667
Total Molybdenum (Mo)	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7724410
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



Bureau Veritas Job #: C1Y7042
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Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

ELEMENTS BY ICP/MS (SURFACE WATER)

Bureau Veritas ID		RID292	RID293	RID294	RID319		
Sampling Date		2021/12/06 09:57	2021/12/06 10:12	2021/12/07 12:00	2021/12/06 12:00		
COC Number		D55080	D55080	D55080	D55081		
	UNITS	SW-18-21	SW-19-21	SW-20-21	SW-DUP	RDL	QC Batch
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7734667
Total Nickel (Ni)	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7724410
Dissolved Phosphorus (P)	ug/L	<100	<100	<100	<100	100	7734667
Total Phosphorus (P)	mg/L	<0.10	0.16	<0.10	<0.10	0.10	7724410
Dissolved Potassium (K)	ug/L	330	140	510	340	100	7734667
Total Potassium (K)	mg/L	0.35	0.31	0.53	0.36	0.10	7724410
Dissolved Selenium (Se)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	7734667
Total Selenium (Se)	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00050	7724410
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7734667
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	7724410
Dissolved Sodium (Na)	ug/L	4100	4000	4100	4200	100	7734667
Total Sodium (Na)	mg/L	4.31	4.36	4.36	4.34	0.10	7724410
Dissolved Strontium (Sr)	ug/L	5.3	4.4	6.4	7.8	2.0	7734667
Total Strontium (Sr)	mg/L	0.0056	0.0057	0.0067	0.0083	0.0020	7724410
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7734667
Total Thallium (Tl)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	7724410
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7734667
Total Tin (Sn)	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7724410
Dissolved Titanium (Ti)	ug/L	3.9	3.9	6.4	4.1	2.0	7734667
Total Titanium (Ti)	mg/L	0.0054	0.0097	0.0176	0.0055	0.0020	7724410
Dissolved Uranium (U)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7734667
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	7724410
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7734667
Total Vanadium (V)	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7724410
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.9	5.4	5.0	7734667
Total Zinc (Zn)	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7724410
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.3°C
Package 2	2.0°C
Package 3	1.7°C
Package 4	3.7°C

Sample RID285 [SW-11-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RID286 [SW-12-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RID287 [SW-13-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RID288 [SW-14-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RID289 [SW-15-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RID290 [SW-16-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RID291 [SW-17-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RID292 [SW-18-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RID293 [SW-19-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RID294 [SW-20-21] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RID319 [SW-DUP] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample RID290, Metals Water Total MS: Test repeated.

Results relate only to the items tested.



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Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7724410	BAN	Matrix Spike	Total Aluminum (Al)	2021/12/14	102	%	80 - 120		
			Total Antimony (Sb)	2021/12/14	107	%	80 - 120		
			Total Arsenic (As)	2021/12/14	96	%	80 - 120		
			Total Barium (Ba)	2021/12/14	98	%	80 - 120		
			Total Beryllium (Be)	2021/12/14	101	%	80 - 120		
			Total Bismuth (Bi)	2021/12/14	98	%	80 - 120		
			Total Boron (B)	2021/12/14	105	%	80 - 120		
			Total Cadmium (Cd)	2021/12/14	99	%	80 - 120		
			Total Calcium (Ca)	2021/12/14	NC	%	80 - 120		
			Total Chromium (Cr)	2021/12/14	98	%	80 - 120		
			Total Cobalt (Co)	2021/12/14	99	%	80 - 120		
			Total Copper (Cu)	2021/12/14	100	%	80 - 120		
			Total Iron (Fe)	2021/12/14	100	%	80 - 120		
			Total Lead (Pb)	2021/12/14	99	%	80 - 120		
			Total Magnesium (Mg)	2021/12/14	103	%	80 - 120		
			Total Manganese (Mn)	2021/12/14	99	%	80 - 120		
			Total Molybdenum (Mo)	2021/12/14	104	%	80 - 120		
			Total Nickel (Ni)	2021/12/14	99	%	80 - 120		
			Total Phosphorus (P)	2021/12/14	105	%	80 - 120		
			Total Potassium (K)	2021/12/14	101	%	80 - 120		
			Total Selenium (Se)	2021/12/14	100	%	80 - 120		
			Total Silver (Ag)	2021/12/14	100	%	80 - 120		
			Total Sodium (Na)	2021/12/14	102	%	80 - 120		
			Total Strontium (Sr)	2021/12/14	NC	%	80 - 120		
			Total Thallium (Tl)	2021/12/14	101	%	80 - 120		
			Total Tin (Sn)	2021/12/14	103	%	80 - 120		
			Total Titanium (Ti)	2021/12/14	99	%	80 - 120		
			Total Uranium (U)	2021/12/14	106	%	80 - 120		
			Total Vanadium (V)	2021/12/14	100	%	80 - 120		
			Total Zinc (Zn)	2021/12/14	99	%	80 - 120		
7724410	BAN	Spiked Blank	Total Aluminum (Al)	2021/12/14	100	%	80 - 120		
			Total Antimony (Sb)	2021/12/14	102	%	80 - 120		
			Total Arsenic (As)	2021/12/14	94	%	80 - 120		
			Total Barium (Ba)	2021/12/14	96	%	80 - 120		
			Total Beryllium (Be)	2021/12/14	101	%	80 - 120		
			Total Bismuth (Bi)	2021/12/14	99	%	80 - 120		
			Total Boron (B)	2021/12/14	103	%	80 - 120		
			Total Cadmium (Cd)	2021/12/14	98	%	80 - 120		
			Total Calcium (Ca)	2021/12/14	102	%	80 - 120		
			Total Chromium (Cr)	2021/12/14	98	%	80 - 120		
			Total Cobalt (Co)	2021/12/14	99	%	80 - 120		
			Total Copper (Cu)	2021/12/14	100	%	80 - 120		
			Total Iron (Fe)	2021/12/14	102	%	80 - 120		
			Total Lead (Pb)	2021/12/14	99	%	80 - 120		
			Total Magnesium (Mg)	2021/12/14	103	%	80 - 120		
			Total Manganese (Mn)	2021/12/14	100	%	80 - 120		
			Total Molybdenum (Mo)	2021/12/14	100	%	80 - 120		
			Total Nickel (Ni)	2021/12/14	100	%	80 - 120		
			Total Phosphorus (P)	2021/12/14	103	%	80 - 120		
			Total Potassium (K)	2021/12/14	100	%	80 - 120		
			Total Selenium (Se)	2021/12/14	98	%	80 - 120		
			Total Silver (Ag)	2021/12/14	97	%	80 - 120		
			Total Sodium (Na)	2021/12/14	99	%	80 - 120		



Bureau Veritas Job #: C1Y7042
Report Date: 2022/01/25

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: 0267
Sampler Initials: DB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7724410	BAN	Method Blank	Total Strontium (Sr)	2021/12/14		96	%	80 - 120
			Total Thallium (Tl)	2021/12/14		100	%	80 - 120
			Total Tin (Sn)	2021/12/14		100	%	80 - 120
			Total Titanium (Ti)	2021/12/14		99	%	80 - 120
			Total Uranium (U)	2021/12/14		104	%	80 - 120
			Total Vanadium (V)	2021/12/14		100	%	80 - 120
			Total Zinc (Zn)	2021/12/14		100	%	80 - 120
			Total Aluminum (Al)	2021/12/14	<0.0050		mg/L	
			Total Antimony (Sb)	2021/12/14	<0.0010		mg/L	
			Total Arsenic (As)	2021/12/14	<0.0010		mg/L	
			Total Barium (Ba)	2021/12/14	<0.0010		mg/L	
			Total Beryllium (Be)	2021/12/14	<0.00010		mg/L	
			Total Bismuth (Bi)	2021/12/14	<0.0020		mg/L	
			Total Boron (B)	2021/12/14	<0.050		mg/L	
			Total Cadmium (Cd)	2021/12/14	<0.000010		mg/L	
			Total Calcium (Ca)	2021/12/14	<0.10		mg/L	
			Total Chromium (Cr)	2021/12/14	<0.0010		mg/L	
			Total Cobalt (Co)	2021/12/14	<0.00040		mg/L	
			Total Copper (Cu)	2021/12/14	<0.00050		mg/L	
			Total Iron (Fe)	2021/12/14	<0.050		mg/L	
			Total Lead (Pb)	2021/12/14	<0.00050		mg/L	
			Total Magnesium (Mg)	2021/12/14	<0.10		mg/L	
			Total Manganese (Mn)	2021/12/14	<0.0020		mg/L	
			Total Molybdenum (Mo)	2021/12/14	<0.0020		mg/L	
			Total Nickel (Ni)	2021/12/14	<0.0020		mg/L	
			Total Phosphorus (P)	2021/12/14	<0.10		mg/L	
			Total Potassium (K)	2021/12/14	<0.10		mg/L	
			Total Selenium (Se)	2021/12/14	<0.00050		mg/L	
			Total Silver (Ag)	2021/12/14	<0.00010		mg/L	
			Total Sodium (Na)	2021/12/14	<0.10		mg/L	
			Total Strontium (Sr)	2021/12/14	<0.0020		mg/L	
			Total Thallium (Tl)	2021/12/14	<0.00010		mg/L	
			Total Tin (Sn)	2021/12/14	<0.0020		mg/L	
			Total Titanium (Ti)	2021/12/14	<0.0020		mg/L	
			Total Uranium (U)	2021/12/14	<0.00010		mg/L	
			Total Vanadium (V)	2021/12/14	<0.0020		mg/L	
			Total Zinc (Zn)	2021/12/14	<0.0050		mg/L	
7724410	BAN	RPD	Total Aluminum (Al)	2021/12/14	NC		%	20
			Total Antimony (Sb)	2021/12/14	NC		%	20
			Total Arsenic (As)	2021/12/14	NC		%	20
			Total Barium (Ba)	2021/12/14	NC		%	20
			Total Beryllium (Be)	2021/12/14	NC		%	20
			Total Bismuth (Bi)	2021/12/14	NC		%	20
			Total Boron (B)	2021/12/14	NC		%	20
			Total Cadmium (Cd)	2021/12/14	NC		%	20
			Total Calcium (Ca)	2021/12/14	NC		%	20
			Total Chromium (Cr)	2021/12/14	NC		%	20
			Total Cobalt (Co)	2021/12/14	NC		%	20
			Total Copper (Cu)	2021/12/14	NC		%	20
			Total Iron (Fe)	2021/12/14	NC		%	20
			Total Lead (Pb)	2021/12/14	NC		%	20
			Total Magnesium (Mg)	2021/12/14	NC		%	20
			Total Manganese (Mn)	2021/12/14	NC		%	20



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7724700	BAN	Matrix Spike	Total Molybdenum (Mo)	2021/12/14	NC		%	20
			Total Nickel (Ni)	2021/12/14	NC		%	20
			Total Phosphorus (P)	2021/12/14	NC		%	20
			Total Potassium (K)	2021/12/14	NC		%	20
			Total Selenium (Se)	2021/12/14	NC		%	20
			Total Silver (Ag)	2021/12/14	NC		%	20
			Total Sodium (Na)	2021/12/14	7.6		%	20
			Total Strontium (Sr)	2021/12/14	NC		%	20
			Total Thallium (Tl)	2021/12/14	NC		%	20
			Total Tin (Sn)	2021/12/14	NC		%	20
			Total Titanium (Ti)	2021/12/14	NC		%	20
			Total Uranium (U)	2021/12/14	NC		%	20
			Total Vanadium (V)	2021/12/14	NC		%	20
			Total Zinc (Zn)	2021/12/14	NC		%	20
			Total Aluminum (Al)	2021/12/15		102	%	80 - 120
			Total Antimony (Sb)	2021/12/15		102	%	80 - 120
			Total Arsenic (As)	2021/12/15		98	%	80 - 120
			Total Barium (Ba)	2021/12/15		96	%	80 - 120
			Total Beryllium (Be)	2021/12/15		102	%	80 - 120
			Total Bismuth (Bi)	2021/12/15		97	%	80 - 120
			Total Boron (B)	2021/12/15		104	%	80 - 120
			Total Cadmium (Cd)	2021/12/15		101	%	80 - 120
			Total Calcium (Ca)	2021/12/15		NC	%	80 - 120
			Total Chromium (Cr)	2021/12/15		100	%	80 - 120
			Total Cobalt (Co)	2021/12/15		102	%	80 - 120
			Total Copper (Cu)	2021/12/15		101	%	80 - 120
			Total Iron (Fe)	2021/12/15		103	%	80 - 120
			Total Lead (Pb)	2021/12/15		98	%	80 - 120
			Total Magnesium (Mg)	2021/12/15		106	%	80 - 120
			Total Manganese (Mn)	2021/12/15		101	%	80 - 120
			Total Molybdenum (Mo)	2021/12/15		105	%	80 - 120
			Total Nickel (Ni)	2021/12/15		102	%	80 - 120
			Total Phosphorus (P)	2021/12/15		107	%	80 - 120
			Total Potassium (K)	2021/12/15		102	%	80 - 120
			Total Selenium (Se)	2021/12/15		101	%	80 - 120
			Total Silver (Ag)	2021/12/15		101	%	80 - 120
			Total Sodium (Na)	2021/12/15		102	%	80 - 120
			Total Strontium (Sr)	2021/12/15		NC	%	80 - 120
			Total Thallium (Tl)	2021/12/15		98	%	80 - 120
			Total Tin (Sn)	2021/12/15		101	%	80 - 120
			Total Titanium (Ti)	2021/12/15		101	%	80 - 120
			Total Uranium (U)	2021/12/15		103	%	80 - 120
			Total Vanadium (V)	2021/12/15		101	%	80 - 120
			Total Zinc (Zn)	2021/12/15		100	%	80 - 120
7724700	BAN	Spiked Blank	Total Aluminum (Al)	2021/12/15		107	%	80 - 120
			Total Antimony (Sb)	2021/12/15		104	%	80 - 120
			Total Arsenic (As)	2021/12/15		99	%	80 - 120
			Total Barium (Ba)	2021/12/15		99	%	80 - 120
			Total Beryllium (Be)	2021/12/15		103	%	80 - 120
			Total Bismuth (Bi)	2021/12/15		101	%	80 - 120
			Total Boron (B)	2021/12/15		106	%	80 - 120
			Total Cadmium (Cd)	2021/12/15		102	%	80 - 120
			Total Calcium (Ca)	2021/12/15		104	%	80 - 120



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7724700	BAN	Method Blank	Total Chromium (Cr)	2021/12/15		102	%	80 - 120
			Total Cobalt (Co)	2021/12/15		104	%	80 - 120
			Total Copper (Cu)	2021/12/15		105	%	80 - 120
			Total Iron (Fe)	2021/12/15		105	%	80 - 120
			Total Lead (Pb)	2021/12/15		102	%	80 - 120
			Total Magnesium (Mg)	2021/12/15		108	%	80 - 120
			Total Manganese (Mn)	2021/12/15		104	%	80 - 120
			Total Molybdenum (Mo)	2021/12/15		104	%	80 - 120
			Total Nickel (Ni)	2021/12/15		105	%	80 - 120
			Total Phosphorus (P)	2021/12/15		107	%	80 - 120
			Total Potassium (K)	2021/12/15		104	%	80 - 120
			Total Selenium (Se)	2021/12/15		103	%	80 - 120
			Total Silver (Ag)	2021/12/15		102	%	80 - 120
			Total Sodium (Na)	2021/12/15		106	%	80 - 120
			Total Strontium (Sr)	2021/12/15		99	%	80 - 120
			Total Thallium (Tl)	2021/12/15		101	%	80 - 120
			Total Tin (Sn)	2021/12/15		101	%	80 - 120
			Total Titanium (Ti)	2021/12/15		106	%	80 - 120
			Total Uranium (U)	2021/12/15		105	%	80 - 120
			Total Vanadium (V)	2021/12/15		104	%	80 - 120
			Total Zinc (Zn)	2021/12/15		102	%	80 - 120
			Total Aluminum (Al)	2021/12/15	<0.0050		mg/L	
			Total Antimony (Sb)	2021/12/15	<0.0010		mg/L	
			Total Arsenic (As)	2021/12/15	<0.0010		mg/L	
			Total Barium (Ba)	2021/12/15	<0.0010		mg/L	
			Total Beryllium (Be)	2021/12/15	<0.00010		mg/L	
			Total Bismuth (Bi)	2021/12/15	<0.0020		mg/L	
			Total Boron (B)	2021/12/15	<0.050		mg/L	
			Total Cadmium (Cd)	2021/12/15	<0.000010		mg/L	
			Total Calcium (Ca)	2021/12/15	<0.10		mg/L	
			Total Chromium (Cr)	2021/12/15	<0.0010		mg/L	
			Total Cobalt (Co)	2021/12/15	<0.00040		mg/L	
			Total Copper (Cu)	2021/12/15	0.00101,		mg/L	
					RDL=0.00050 (1)			
			Total Iron (Fe)	2021/12/15	<0.050		mg/L	
			Total Lead (Pb)	2021/12/15	<0.00050		mg/L	
			Total Magnesium (Mg)	2021/12/15	<0.10		mg/L	
			Total Manganese (Mn)	2021/12/15	<0.0020		mg/L	
			Total Molybdenum (Mo)	2021/12/15	<0.0020		mg/L	
			Total Nickel (Ni)	2021/12/15	<0.0020		mg/L	
			Total Phosphorus (P)	2021/12/15	<0.10		mg/L	
			Total Potassium (K)	2021/12/15	<0.10		mg/L	
			Total Selenium (Se)	2021/12/15	<0.00050		mg/L	
			Total Silver (Ag)	2021/12/15	<0.00010		mg/L	
			Total Sodium (Na)	2021/12/15	<0.10		mg/L	
			Total Strontium (Sr)	2021/12/15	<0.0020		mg/L	
			Total Thallium (Tl)	2021/12/15	<0.00010		mg/L	
			Total Tin (Sn)	2021/12/15	<0.0020		mg/L	
			Total Titanium (Ti)	2021/12/15	<0.0020		mg/L	
			Total Uranium (U)	2021/12/15	<0.00010		mg/L	
			Total Vanadium (V)	2021/12/15	<0.0020		mg/L	
			Total Zinc (Zn)	2021/12/15	<0.0050		mg/L	
7724700	BAN	RPD	Total Aluminum (Al)	2021/12/15	NC		%	20



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Manganese (Mn)	2021/12/15	1.5		%	20
7730559	NGI	Matrix Spike	Total Organic Carbon (C)	2021/12/16		101	%	85 - 115
7730559	NGI	Spiked Blank	Total Organic Carbon (C)	2021/12/16		101	%	80 - 120
7730559	NGI	Method Blank	Total Organic Carbon (C)	2021/12/16	<0.50		mg/L	
7730559	NGI	RPD	Total Organic Carbon (C)	2021/12/16	8.1		%	15
7730581	NGI	Matrix Spike	Total Organic Carbon (C)	2021/12/16		96	%	85 - 115
7730581	NGI	Spiked Blank	Total Organic Carbon (C)	2021/12/16		102	%	80 - 120
7730581	NGI	Method Blank	Total Organic Carbon (C)	2021/12/16	<0.50		mg/L	
7730581	NGI	RPD	Total Organic Carbon (C)	2021/12/16	2.4		%	15
7731895	SHW	Spiked Blank	Conductivity	2021/12/16		100	%	80 - 120
7731895	SHW	Method Blank	Conductivity	2021/12/16	1.0, RDL=1.0		uS/cm	
7731895	SHW	RPD	Conductivity	2021/12/16	NC		%	10
7731913	SHW	Spiked Blank	pH	2021/12/16		100	%	97 - 103
7731913	SHW	RPD	pH	2021/12/16	1.8		%	N/A
7734661	NGI	Matrix Spike	Dissolved Organic Carbon (C)	2021/12/17		97	%	85 - 115
7734661	NGI	Spiked Blank	Dissolved Organic Carbon (C)	2021/12/17		101	%	80 - 120
7734661	NGI	Method Blank	Dissolved Organic Carbon (C)	2021/12/17	<0.50		mg/L	
7734661	NGI	RPD	Dissolved Organic Carbon (C)	2021/12/17	0.96		%	15
7734667	BAN	Matrix Spike	Dissolved Aluminum (Al)	2021/12/17		98	%	80 - 120
			Dissolved Antimony (Sb)	2021/12/17		101	%	80 - 120
			Dissolved Arsenic (As)	2021/12/17		94	%	80 - 120
			Dissolved Barium (Ba)	2021/12/17		NC	%	80 - 120
			Dissolved Beryllium (Be)	2021/12/17		97	%	80 - 120
			Dissolved Bismuth (Bi)	2021/12/17		96	%	80 - 120
			Dissolved Boron (B)	2021/12/17		99	%	80 - 120
			Dissolved Cadmium (Cd)	2021/12/17		96	%	80 - 120
			Dissolved Calcium (Ca)	2021/12/17		NC	%	80 - 120
			Dissolved Chromium (Cr)	2021/12/17		97	%	80 - 120
			Dissolved Cobalt (Co)	2021/12/17		94	%	80 - 120
			Dissolved Copper (Cu)	2021/12/17		95	%	80 - 120
			Dissolved Iron (Fe)	2021/12/17		96	%	80 - 120
			Dissolved Lead (Pb)	2021/12/17		95	%	80 - 120
			Dissolved Magnesium (Mg)	2021/12/17		96	%	80 - 120
			Dissolved Manganese (Mn)	2021/12/17		NC	%	80 - 120
			Dissolved Molybdenum (Mo)	2021/12/17		101	%	80 - 120
			Dissolved Nickel (Ni)	2021/12/17		96	%	80 - 120
			Dissolved Phosphorus (P)	2021/12/17		101	%	80 - 120
			Dissolved Potassium (K)	2021/12/17		97	%	80 - 120
			Dissolved Selenium (Se)	2021/12/17		97	%	80 - 120
			Dissolved Silver (Ag)	2021/12/17		84	%	80 - 120
			Dissolved Sodium (Na)	2021/12/17		NC	%	80 - 120
			Dissolved Strontium (Sr)	2021/12/17		NC	%	80 - 120
			Dissolved Thallium (Tl)	2021/12/17		96	%	80 - 120
			Dissolved Tin (Sn)	2021/12/17		101	%	80 - 120
			Dissolved Titanium (Ti)	2021/12/17		97	%	80 - 120
			Dissolved Uranium (U)	2021/12/17		100	%	80 - 120
			Dissolved Vanadium (V)	2021/12/17		97	%	80 - 120
			Dissolved Zinc (Zn)	2021/12/17		98	%	80 - 120
7734667	BAN	Spiked Blank	Dissolved Aluminum (Al)	2021/12/17		97	%	80 - 120
			Dissolved Antimony (Sb)	2021/12/17		99	%	80 - 120
			Dissolved Arsenic (As)	2021/12/17		92	%	80 - 120
			Dissolved Barium (Ba)	2021/12/17		95	%	80 - 120



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Dissolved Beryllium (Be)	2021/12/17		97	%	80 - 120
				Dissolved Bismuth (Bi)	2021/12/17		97	%	80 - 120
				Dissolved Boron (B)	2021/12/17		98	%	80 - 120
				Dissolved Cadmium (Cd)	2021/12/17		97	%	80 - 120
				Dissolved Calcium (Ca)	2021/12/17		100	%	80 - 120
				Dissolved Chromium (Cr)	2021/12/17		97	%	80 - 120
				Dissolved Cobalt (Co)	2021/12/17		95	%	80 - 120
				Dissolved Copper (Cu)	2021/12/17		96	%	80 - 120
				Dissolved Iron (Fe)	2021/12/17		99	%	80 - 120
				Dissolved Lead (Pb)	2021/12/17		96	%	80 - 120
				Dissolved Magnesium (Mg)	2021/12/17		100	%	80 - 120
				Dissolved Manganese (Mn)	2021/12/17		98	%	80 - 120
				Dissolved Molybdenum (Mo)	2021/12/17		98	%	80 - 120
				Dissolved Nickel (Ni)	2021/12/17		97	%	80 - 120
				Dissolved Phosphorus (P)	2021/12/17		101	%	80 - 120
				Dissolved Potassium (K)	2021/12/17		98	%	80 - 120
				Dissolved Selenium (Se)	2021/12/17		96	%	80 - 120
				Dissolved Silver (Ag)	2021/12/17		95	%	80 - 120
				Dissolved Sodium (Na)	2021/12/17		97	%	80 - 120
				Dissolved Strontium (Sr)	2021/12/17		95	%	80 - 120
				Dissolved Thallium (Tl)	2021/12/17		97	%	80 - 120
				Dissolved Tin (Sn)	2021/12/17		99	%	80 - 120
				Dissolved Titanium (Ti)	2021/12/17		98	%	80 - 120
				Dissolved Uranium (U)	2021/12/17		99	%	80 - 120
				Dissolved Vanadium (V)	2021/12/17		97	%	80 - 120
				Dissolved Zinc (Zn)	2021/12/17		99	%	80 - 120
7734667		BAN	Method Blank	Dissolved Aluminum (Al)	2021/12/17	<5.0		ug/L	
				Dissolved Antimony (Sb)	2021/12/17	<1.0		ug/L	
				Dissolved Arsenic (As)	2021/12/17	<1.0		ug/L	
				Dissolved Barium (Ba)	2021/12/17	<1.0		ug/L	
				Dissolved Beryllium (Be)	2021/12/17	<0.10		ug/L	
				Dissolved Bismuth (Bi)	2021/12/17	<2.0		ug/L	
				Dissolved Boron (B)	2021/12/17	<50		ug/L	
				Dissolved Cadmium (Cd)	2021/12/17	<0.010		ug/L	
				Dissolved Calcium (Ca)	2021/12/17	<100		ug/L	
				Dissolved Chromium (Cr)	2021/12/17	<1.0		ug/L	
				Dissolved Cobalt (Co)	2021/12/17	<0.40		ug/L	
				Dissolved Copper (Cu)	2021/12/17	<0.50		ug/L	
				Dissolved Iron (Fe)	2021/12/17	<50		ug/L	
				Dissolved Lead (Pb)	2021/12/17	<0.50		ug/L	
				Dissolved Magnesium (Mg)	2021/12/17	<100		ug/L	
				Dissolved Manganese (Mn)	2021/12/17	<2.0		ug/L	
				Dissolved Molybdenum (Mo)	2021/12/17	<2.0		ug/L	
				Dissolved Nickel (Ni)	2021/12/17	<2.0		ug/L	
				Dissolved Phosphorus (P)	2021/12/17	<100		ug/L	
				Dissolved Potassium (K)	2021/12/17	<100		ug/L	
				Dissolved Selenium (Se)	2021/12/17	<0.50		ug/L	
				Dissolved Silver (Ag)	2021/12/17	<0.10		ug/L	
				Dissolved Sodium (Na)	2021/12/17	<100		ug/L	
				Dissolved Strontium (Sr)	2021/12/17	<2.0		ug/L	
				Dissolved Thallium (Tl)	2021/12/17	<0.10		ug/L	
				Dissolved Tin (Sn)	2021/12/17	<2.0		ug/L	
				Dissolved Titanium (Ti)	2021/12/17	<2.0		ug/L	



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7734667	BAN	RPD	Dissolved Uranium (U)	2021/12/17	<0.10		ug/L	
			Dissolved Vanadium (V)	2021/12/17	<2.0		ug/L	
			Dissolved Zinc (Zn)	2021/12/17	<5.0		ug/L	
			Dissolved Cadmium (Cd)	2021/12/17	NC		%	20
			Dissolved Calcium (Ca)	2021/12/17	1.3		%	20
			Dissolved Copper (Cu)	2021/12/17	NC		%	20
			Dissolved Iron (Fe)	2021/12/17	0.15		%	20
			Dissolved Lead (Pb)	2021/12/17	NC		%	20
			Dissolved Magnesium (Mg)	2021/12/17	0.52		%	20
			Dissolved Manganese (Mn)	2021/12/17	0.18		%	20
			Dissolved Potassium (K)	2021/12/17	0.87		%	20
			Dissolved Sodium (Na)	2021/12/17	0.17		%	20
			Dissolved Zinc (Zn)	2021/12/17	NC		%	20
7734682	NGI	Matrix Spike	Dissolved Organic Carbon (C)	2021/12/17		101	%	85 - 115
7734682	NGI	Spiked Blank	Dissolved Organic Carbon (C)	2021/12/17		99	%	80 - 120
7734682	NGI	Method Blank	Dissolved Organic Carbon (C)	2021/12/17	<0.50		mg/L	
7734682	NGI	RPD	Dissolved Organic Carbon (C)	2021/12/17	0.90		%	15
7734998	SHW	QC Standard	Turbidity	2021/12/17		100	%	80 - 120
7734998	SHW	Spiked Blank	Turbidity	2021/12/17		104	%	80 - 120
7734998	SHW	Method Blank	Turbidity	2021/12/17	<0.10		NTU	
7734998	SHW	RPD	Turbidity	2021/12/17	6.0		%	20
7740973	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2021/12/20		102	%	80 - 120
7740973	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2021/12/20		107	%	80 - 120
7740973	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2021/12/20	<0.050		mg/L	
7740973	MCN	RPD	Nitrogen (Ammonia Nitrogen)	2021/12/20	NC		%	20
7741018	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2021/12/20		118	%	80 - 120
7741018	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2021/12/20		106	%	80 - 120
7741018	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2021/12/20	<0.050		mg/L	
7741018	MCN	RPD	Nitrogen (Ammonia Nitrogen)	2021/12/20	3.7		%	20
7741050	NGI	Matrix Spike	Dissolved Organic Carbon (C)	2021/12/20		94	%	85 - 115
7741050	NGI	Spiked Blank	Dissolved Organic Carbon (C)	2021/12/20		100	%	80 - 120
7741050	NGI	Method Blank	Dissolved Organic Carbon (C)	2021/12/20	<0.50		mg/L	
7741050	NGI	RPD	Dissolved Organic Carbon (C)	2021/12/20	3.6		%	15
7741162	BAN	Matrix Spike	Total Copper (Cu)	2021/12/21		101	%	80 - 120
7741162	BAN	Spiked Blank	Total Copper (Cu)	2021/12/21		100	%	80 - 120
7741162	BAN	Method Blank	Total Copper (Cu)	2021/12/21	<0.00050		mg/L	
7741162	BAN	RPD	Total Copper (Cu)	2021/12/21	NC		%	20
7741264	EMT	Matrix Spike	Total Alkalinity (Total as CaCO3)	2021/12/20		95	%	80 - 120
7741264	EMT	Spiked Blank	Total Alkalinity (Total as CaCO3)	2021/12/20		100	%	80 - 120
7741264	EMT	Method Blank	Total Alkalinity (Total as CaCO3)	2021/12/20	<5.0		mg/L	
7741264	EMT	RPD	Total Alkalinity (Total as CaCO3)	2021/12/20	NC		%	20
7741273	EMT	Matrix Spike	Dissolved Chloride (Cl-)	2021/12/20		96	%	80 - 120
7741273	EMT	Spiked Blank	Dissolved Chloride (Cl-)	2021/12/20		99	%	80 - 120
7741273	EMT	Method Blank	Dissolved Chloride (Cl-)	2021/12/21	<1.0		mg/L	
7741273	EMT	RPD	Dissolved Chloride (Cl-)	2021/12/20	13		%	20
7741275	EMT	Matrix Spike	Dissolved Sulphate (SO4)	2021/12/20		96	%	80 - 120
7741275	EMT	Spiked Blank	Dissolved Sulphate (SO4)	2021/12/20		98	%	80 - 120
7741275	EMT	Method Blank	Dissolved Sulphate (SO4)	2021/12/20	<2.0		mg/L	
7741275	EMT	RPD	Dissolved Sulphate (SO4)	2021/12/20	NC		%	20
7741276	EMT	Matrix Spike	Reactive Silica (SiO2)	2021/12/20		90	%	80 - 120
7741276	EMT	Spiked Blank	Reactive Silica (SiO2)	2021/12/20		91	%	80 - 120
7741276	EMT	Method Blank	Reactive Silica (SiO2)	2021/12/20	<0.50		mg/L	
7741276	EMT	RPD	Reactive Silica (SiO2)	2021/12/20	NC		%	20



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7741277	EMT	Spiked Blank	Colour	2021/12/20		99	%	80 - 120
7741277	EMT	Method Blank	Colour	2021/12/20	<5.0		TCU	
7741277	EMT	RPD	Colour	2021/12/20	NC		%	20
7741278	EMT	Matrix Spike	Orthophosphate (P)	2021/12/20		96	%	80 - 120
7741278	EMT	Spiked Blank	Orthophosphate (P)	2021/12/20		109	%	80 - 120
7741278	EMT	Method Blank	Orthophosphate (P)	2021/12/20	<0.010		mg/L	
7741278	EMT	RPD	Orthophosphate (P)	2021/12/20	NC		%	20
7741279	EMT	Matrix Spike	Nitrate + Nitrite (N)	2021/12/21		98	%	80 - 120
7741279	EMT	Spiked Blank	Nitrate + Nitrite (N)	2021/12/21		100	%	80 - 120
7741279	EMT	Method Blank	Nitrate + Nitrite (N)	2021/12/21	<0.050		mg/L	
7741279	EMT	RPD	Nitrate + Nitrite (N)	2021/12/21	NC		%	20
7741280	EMT	Matrix Spike	Nitrite (N)	2021/12/20		104	%	80 - 120
7741280	EMT	Spiked Blank	Nitrite (N)	2021/12/20		103	%	80 - 120
7741280	EMT	Method Blank	Nitrite (N)	2021/12/20	<0.010		mg/L	
7741280	EMT	RPD	Nitrite (N)	2021/12/20	NC		%	20
7759301	FJO	Matrix Spike	Total Mercury (Hg)	2022/01/04		97	%	80 - 120
7759301	FJO	Spiked Blank	Total Mercury (Hg)	2022/01/04		103	%	80 - 120
7759301	FJO	Method Blank	Total Mercury (Hg)	2022/01/04	<0.013		ug/L	
7759301	FJO	RPD	Total Mercury (Hg)	2022/01/04	NC		%	20
7761351	SHW	Spiked Blank	Conductivity	2022/01/04		100	%	80 - 120
7761351	SHW	Method Blank	Conductivity	2022/01/04	<1.0		uS/cm	
7761351	SHW	RPD	Conductivity	2022/01/04	0.57		%	10
7761358	SHW	Spiked Blank	pH	2022/01/04		100	%	97 - 103
7761358	SHW	RPD	pH	2022/01/04	3.2		%	N/A
7762793	FJO	Matrix Spike	Total Mercury (Hg)	2022/01/04		87	%	80 - 120
7762793	FJO	Spiked Blank	Total Mercury (Hg)	2022/01/04		105	%	80 - 120
7762793	FJO	Method Blank	Total Mercury (Hg)	2022/01/04	<0.013		ug/L	
7762793	FJO	RPD	Total Mercury (Hg)	2022/01/04	NC		%	20
7763754	FJO	Matrix Spike [RID285-08]	Dissolved Mercury (Hg)	2022/01/05		90	%	80 - 120
7763754	FJO	Spiked Blank	Dissolved Mercury (Hg)	2022/01/05		90	%	80 - 120
7763754	FJO	Method Blank	Dissolved Mercury (Hg)	2022/01/05	<0.013		ug/L	
7763754	FJO	RPD	Dissolved Mercury (Hg)	2022/01/05	NC (2)		%	20
7763841	FJO	Matrix Spike	Total Mercury (Hg)	2022/01/05		105	%	80 - 120
7763841	FJO	Spiked Blank	Total Mercury (Hg)	2022/01/05		92	%	80 - 120
7763841	FJO	Method Blank	Total Mercury (Hg)	2022/01/05	<0.013		ug/L	
7763841	FJO	RPD	Total Mercury (Hg)	2022/01/05	NC (2)		%	20
7792742	NGI	Matrix Spike	Dissolved Organic Carbon (C)	2022/01/24		95	%	85 - 115
7792742	NGI	Spiked Blank	Dissolved Organic Carbon (C)	2022/01/24		98	%	80 - 120
7792742	NGI	Method Blank	Dissolved Organic Carbon (C)	2022/01/24	<0.50		mg/L	



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC		QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
Batch	Init							
7792742	NGI	RPD	Dissolved Organic Carbon (C)	2022/01/24	5.7		%	15
N/A = Not Applicable Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement. Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference. QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy. Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy. Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination. NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration) NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference $\leq 2 \times \text{RDL}$). (1) Low level lab contamination. (2) Mercury analyzed past recommended hold time.								



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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Kevin MacDonald, Inorganics Supervisor

Mike MacGillivray, Scientific Specialist (Inorganics)



Bureau Veritas Proprietary Software
Logiciel Propriétaire de Bureau Veritas

Automated Statchk

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Methyl Mercury Results

Flett Research Ltd.

440 DeSalaberry Ave. Winnipeg, MB R2L 0Y7
Fax/Phone (204) 667-2505
E-mail: flett@flettresearch.ca Webpage: http://www.flettresearch.ca

MTWATR122121J51
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CLIENT: Bureau Veritas - Bedford: C1Y7042

200 Bluewater Road, Suite 105
Bedford, NS B4B 1G9

Date Received: December 15, 2021

Sampling Date: December 6, 2021 to December 7, 2021

Date Issued: December 23, 2021

Matrix: Water

Transaction ID: 894

PO/Contract No.:

Date Analysed: December 21, 2021

Analyst(s): Jason S.

Analytical Method: M10211: Methyl Mercury in Water by Distillation, Aqueous Ethylation, Purge and Trap, and CVAFS - Tekran 2700 Mercury Analyser (Version 2)

Comments: Samples (except for SW-15-21) were yellow in colour with particulates. Sample SW-15-21 had particulates present.

Detection Limit: The method detection limit (MDL) for this method is 0.0035 ng/L. The MDL is the minimum concentration that can be reported with 99% confidence that the measured concentration exceeds zero and is based on the distillation of 45mL of raw sample and analysis of either 20 or 30mL of a 40mL distillate.

For reporting purpose samples are flagged when concentration is below the methods EPA defined minimum level (ML= 0.0135 ng/L).
As concentration rises above the MDL confidence that the analyte is present approaches 100% at and above the ML.

Estimated Uncertainty: Overall uncertainty decreases as analyte concentration increases. When methyl mercury concentrations exceed 0.03ng/L the estimated uncertainty of the method is $\pm 15\%$. At a concentration of 0.01ng/L uncertainty is $\pm 23\%$. Method uncertainty for concentrations at MDL is $\pm 75\%$ (0.0035 ± 0.0026 ng/L). All method uncertainties are expressed at a 95% confidence level of ($k=2$).

Results authorized by Dr. Robert J. Flett, Chief Scientist

QUALITY DATA

Blanks		Pg of CH3Hg in the Ethylation Blank	Mean Gross Peak Area	CH3Hg in the Ethylation Blank (ng/L) assumes volume is 30mL			
	Ethylation blank (H2O+Reagents)	0.22	22.07	0.007			
	Mean Eth. Blank (last 30 runs)	0.16					
		Net Pg CH3Hg in the Method Blank (Eth. Blank subtracted)	Gross Peak Area	Net CH3Hg in the Method Blank (ng/L) (Eth. Blank subtracted)			
	Method Blank 1	0.08	29.73	0.003			
	Method Blank 2	0.10	31.85	0.004			
	Method Blank 3	0.04	26.39	0.002			
	Mean Method Blank			0.003			
Mean Calibration Factor (area units / pg)		100.37 ± 8.3 %RSD					
Spike Recovery Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	Sample ID (Details)	Sample Type	Gross Peak Area	Volume of Water Sample Distilled (mL)	% CH3Hg Recovery Used for Calculations	Net CH3Hg as Hg (ng/L)	CH3Hg Recovery (%)
	RID290 (SW-16-21)	MS1	2750.26	46.80	100%	1.07	95.8
	RID290 (SW-16-21)	MS1D	2303.65	47.09	100%	0.99	88.5
	Mean of Spike Recoveries						92.2
QC Samples Ongoing Precision & Recovery (OPR)	MeOPR ID1701 (1000ng/L)	(beginning of run)	1904.02	0.050	100%	990	99.0
	MeOPR ID1701 (1000ng/L)	(end of run)	1474.50	0.050	100%	983	98.3
	MeOPR ID1701 (1000ng/L)	(beginning of run)	1487.15	0.050	100%	990	99.0
	MeOPR ID1701 (1000ng/L)	(end of run)	1332.28	0.050	100%	1010	101.0
	Mean of MeOPR					993	99.3
	A.S.S.-Alfa ID1301 (1000 ng/L)		3463.18		100%	1143	114.3

LAB ID	Sampling Details	Sample ID	Date Sampled	Time Sampled	Sample Type	Gross Peak Area	Volume of Water Sample Distilled (mL)	% CH3Hg Recovery Used for Calculations	Net CH3Hg in the Sample as Hg (ng/L) [Ethylation & Method Blank subtracted] (recovery corrected)
108455	RID285	SW-11-21	December 6, 2021	09:21		477.68	20.15	92.2%	0.477
108456	RID286	SW-12-21	December 6, 2021	11:33	DupA1	272.75	48.23	92.2%	0.114
108456	RID286	SW-12-21	December 6, 2021	11:33	DupA2	279.49	46.95	92.2%	0.122
108457	RID287	SW-13-21	December 7, 2021	11:30		151.01	46.72	92.2%	0.061
108458	RID288	SW-14-21	December 7, 2021	12:00		147.65	46.85	92.2%	0.054
108459	RID289	SW-15-21	December 7, 2021	10:30		107.56	47.42	92.2%	0.036
108460	RID290	SW-16-21	December 7, 2021	14:00		139.29	46.68	92.2%	0.052
108461	RID291	SW-17-21	December 7, 2021	15:30		224.09	46.61	92.2%	0.093
108462	RID292	SW-18-21	December 6, 2021	09:57		455.33	26.26	92.2%	0.344
108463	RID293	SW-19-21	December 6, 2021	10:12	DupB1	1200.74	10.17	92.2%	2.50
108463	RID293	SW-19-21	December 6, 2021	10:12	DupB2	1303.54	10.72	92.2%	2.47
108464	RID294	SW-20-21	December 7, 2021	16:30		151.98	46.52	92.2%	0.061
108465	RID319	SW-Dup	December 6, 2021	12:00		152.34	23.34	92.2%	0.125

Q:\Clients A-L\Bureau Veritas - Bedford\2021\894\Methyl Mercury\MTWATR122121J51.xls

* : See 'Comments' section above for discussion.

This test report shall not be reproduced, except in full, without written approval of the laboratory.

Note: Results relate only to the samples tested and as received.

Dup : Duplicate - two subsamples of the same sample carried through the analytical procedure in an identical manner.



ISO/IEC 17025:2017 Accredited with the Canadian Association of Laboratory Accreditation

M10211-1 Version 110321



DALHOUSIE
UNIVERSITY

Inspiring Minds

Department of Oceanography
1355 Oxford St
Halifax, NS
B3H 4R2

Determination of chlorophyll *a* by fluorescence

Client: Bureau Veritas Laboratories, 200 Bluewater Road, Bedford, NS, B4B 1G9

Attention: Atena Georgescu

Received: 2021-12-14

Project #: C1Y7042

Completed: 2021-12-23

Hugh MacIntyre

Hugh MacIntyre, Ph.D.

Chl *a* (chlorophyll *a* ; $\mu\text{g L}^{-1}$) determined by the acidification method (Holm-Hansen et al., 1965). Estimates made with the non-acidification method (Welschmeyer, 1994) are shown for comparison.

The non-acidification method is considered more reliable than the acidification method in correcting for bias due to the contributions of chlorophyll *b* and chlorophyll degradation products.

Holm-Hansen O, Lorenzen CJ, Holmes RW, Strickland JDH (1965) Fluorometric determination of chlorophyll.

J Conseil 30:3-15

Welschmeyer NA (1994) Fluorometric analysis of chlorophyll *a* in the presence of chlorophyll *b* and phaeopigments.

Limnol Oceanogr 39:1985-1992

Contractor ID	Client ID	Chl <i>a</i> (acidification)	Chl <i>a</i> (non-acidification)
RID285	SW-11-21	13	17.2
RID286	SW-12-21	0.559	0.686
RID287	SW-13-21	0.062	0.08
RID288	SW-14-21	0.2	0.364
RID289	SW-15-21	0.64	0.805
RID290	SW-16-21	0.135	0.336
RID291	SW-17-21	0.124	0.257
RID292	SW-18-21	0.156	0.357
RID293	SW-19-21	13.7	22.6

Contractor ID	Client ID	Chl a (acidification)	Chl a (non-acidification)
RID294	SW-20-21	0.043	0.122
RID319	SW-DUP	0.564	0.737

Appendix D

Sediment Quality Results and Laboratory Certificate

Table D.1

Sediment Quality Results - Metals
Goldboro Gold Mine Project, Guysborough County, NS

Parameters	Units	NS Tier 1 EQS	RA-SED-1	RA-SED-2	RA-SED-3	RA-SED-4	RA-SED-5	RA-SED-6	RA-SED-7	RA-SED-8	RA-SED-9	RA-SED-10	RA-SED-11	RA-SED-12	RA-SED-DUP (FD of RA-SED-12)
		Date	9/1/2021	9/1/2021	9/1/2021	9/1/2021	9/1/2021	8/31/2021	9/1/2021	9/1/2021	9/1/2021	9/1/2021	9/2/2021	9/2/2021	9/2/2021
Acid Extractable Aluminum (Al)	mg/kg	-	3100	7700	2500	8300	9500	9800	7200	8900	9600	10000	15000	9100	8800
Acid Extractable Antimony (Sb)	mg/kg	25	<2.0	<2.0	<2.0	<2.0	<2.0	5.3	73	81	<2.0	<2.0	<2.0	<2.0	<2.0
Acid Extractable Arsenic (As)	mg/kg	17	28	20	12	9.1	19	15000	99000	110000	920	570	1000	140	140
Acid Extractable Barium (Ba)	mg/kg	-	29	27	7	23	27	71	50	64	67	59	96	21	20
Acid Extractable Beryllium (Be)	mg/kg	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Acid Extractable Bismuth (Bi)	mg/kg	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.3	5.4	<2.0	<2.0	<2.0	<2.0	<2.0
Acid Extractable Boron (B)	mg/kg	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Acid Extractable Cadmium (Cd)	mg/kg	3.5	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.32	0.56	<0.30	<0.30	<0.30	<0.30	<0.30
Acid Extractable Chromium (Cr)	mg/kg	90	2.7	12	4	13	13	16	13	15	17	18	24	11	11
Acid Extractable Cobalt (Co)	mg/kg	-	<1.0	2.6	1.1	2.4	3.8	4.1	110	130	2.3	1.2	1.8	<1.0	<1.0
Acid Extractable Copper (Cu)	mg/kg	197	3.3	4.6	<2.0	5.7	4.8	15	25	36	11	6.6	11	3.8	3.7
Acid Extractable Iron (Fe)	mg/kg	43766	4200	6400	3500	6600	12000	37000	93000	120000	17000	18000	30000	6000	6600
Acid Extractable Lead (Pb)	mg/kg	91.3	27	12	4.5	13	10	49	88	120	28	10	43	14	14
Acid Extractable Lithium (Li)	mg/kg	-	<2.0	10	4.3	9.9	11	17	13	18	20	22	31	5.1	5.2
Acid Extractable Manganese (Mn)	mg/kg	1100	24	84	51	87	110	210	160	210	250	270	400	78	78
Acid Extractable Mercury (Hg)	mg/kg	0.486	0.16	0.63	0.2	0.89	0.49	2.7	11	6.4	1.4	0.54	1.5	0.46	0.46
Acid Extractable Molybdenum (Mo)	mg/kg	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.3	2.8	<2.0	<2.0	<2.0	<2.0	<2.0
Acid Extractable Nickel (Ni)	mg/kg	75	2.7	7.8	2.8	7.5	9.1	13	170	210	8.6	7.2	11	3.9	4.2
Acid Extractable Rubidium (Rb)	mg/kg	-	2.4	10	3.3	10	11	21	20	14	30	34	39	6.9	6.4
Acid Extractable Selenium (Se)	mg/kg	2	0.86	1	<0.50	1.1	1.1	<0.50	1.3	2.5	<0.50	<0.50	<0.50	2.4	2.2
Acid Extractable Silver (Ag)	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.1	3.4	<0.50	<0.50	<0.50	<0.50	<0.50
Acid Extractable Strontium (Sr)	mg/kg	-	30	<5.0	<5.0	<5.0	<5.0	13	8.9	26	9.7	13	14	6	6.8
Acid Extractable Thallium (Tl)	mg/kg	-	<0.10	<0.10	<0.10	<0.10	0.12	0.17	0.25	0.3	0.24	0.23	0.28	<0.10	<0.10
Acid Extractable Tin (Sn)	mg/kg	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0
Acid Extractable Uranium (U)	mg/kg	-	0.25	0.57	0.25	0.6	0.55	0.44	0.39	1.7	0.44	0.44	0.59	1.5	1.4
Acid Extractable Vanadium (V)	mg/kg	-	7.1	14	4.8	13	18	18	13	16	17	19	27	8.3	7.9
Acid Extractable Zinc (Zn)	mg/kg	315	8.2	25	8	20	39	32	31	64	32	32	48	10	11

Screening:
Bold and shaded Indicates values are greater than NS Tier 1 EQS

References:
Nova Scotia, current to 2021. Tier 1 Environmental Quality Standards (EQS).



Your P.O. #: 735-000106
 Your Project #: 11222385
 Site Location: GOLDBORO
 Your C.O.C. #: N/A

Attention: Glen Merkley

GHD Limited
 120 Western Parkway
 Bedford, NS
 CANADA B4B 0V2

Report Date: 2021/10/14

Report #: R6853053

Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1P5294

Received: 2021/09/02, 16:32

Sample Matrix: Soil
 # Samples Received: 13

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Metals Solids Acid Extr. ICPMS	7	2021/09/10	2021/09/11	ATL SOP 00058	EPA 6020B R2 m
Metals Solids Acid Extr. ICPMS	6	2021/09/10	2021/09/13	ATL SOP 00058	EPA 6020B R2 m

Sample Matrix: Tissue
 # Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Mercury in biota	3	2021/10/13	2021/10/13	ATL SOP 00026	EPA 245.6 R2.3 m
Metals in Tissue	3	2021/10/06	2021/10/08	ATL SOP 00058	EPA 6020B R2 m
Weight of Tissue	5	N/A	2021/09/20		

Sample Matrix: Water
 # Samples Received: 13

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Mercury - Total (CVAA,LL)	13	2021/09/10	2021/09/10	ATL SOP 00026	EPA 245.1 R3 m
Metals Water Total MS	9	2021/09/08	2021/09/10	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	3	2021/09/08	2021/09/09	ATL SOP 00058	EPA 6020B R2 m
Metals Water Total MS	1	2021/09/09	2021/09/10	ATL SOP 00058	EPA 6020B R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.



Your P.O. #: 735-000106
Your Project #: 11222385
Site Location: GOLDBORO
Your C.O.C. #: N/A

Attention: Glen Merkley

GHD Limited
120 Western Parkway
Bedford, NS
CANADA B4B 0V2

Report Date: 2021/10/14
Report #: R6853053
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1P5294

Received: 2021/09/02, 16:32

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Tyler Travers
Project Manager Assistant
14 Oct 2021 17:20:16

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Atena Georgescu, Project Manager II

Email: Atena.Georgescu@bureauveritas.com

Phone# (902)420-0203 Ext:239

=====

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BV Labs Job #: C1P5294
Report Date: 2021/10/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: 735-000106
Sampler Initials: SJ

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

BV Labs ID		QOP775	QOP776	QOP777	QOP778	QOP779		QOP780		
Sampling Date		2021/09/01 08:55	2021/09/01 09:17	2021/09/01 10:45	2021/09/01 10:13	2021/09/01 10:28		2021/08/31 17:15		
COC Number		N/A	N/A	N/A	N/A	N/A		N/A		
	UNITS	RA-SED-1	RA-SED-2	RA-SED-3	RA-SED-4	RA-SED-5	RDL	RA-SED-6	RDL	QC Batch
Metals										
Acid Extractable Aluminum (Al)	mg/kg	3100	7700	2500	8300	9500	10	9800	10	7569201
Acid Extractable Antimony (Sb)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	5.3	2.0	7569201
Acid Extractable Arsenic (As)	mg/kg	28	20	12	9.1	19	2.0	15000	200	7569201
Acid Extractable Barium (Ba)	mg/kg	29	27	7.0	23	27	5.0	71	5.0	7569201
Acid Extractable Beryllium (Be)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<2.0	2.0	7569201
Acid Extractable Bismuth (Bi)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<2.0	2.0	7569201
Acid Extractable Boron (B)	mg/kg	<50	<50	<50	<50	<50	50	<50	50	7569201
Acid Extractable Cadmium (Cd)	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	<0.30	0.30	7569201
Acid Extractable Chromium (Cr)	mg/kg	2.7	12	4.0	13	13	2.0	16	2.0	7569201
Acid Extractable Cobalt (Co)	mg/kg	<1.0	2.6	1.1	2.4	3.8	1.0	4.1	1.0	7569201
Acid Extractable Copper (Cu)	mg/kg	3.3	4.6	<2.0	5.7	4.8	2.0	15	2.0	7569201
Acid Extractable Iron (Fe)	mg/kg	4200	6400	3500	6600	12000	50	37000	50	7569201
Acid Extractable Lead (Pb)	mg/kg	27	12	4.5	13	10	0.50	49	0.50	7569201
Acid Extractable Lithium (Li)	mg/kg	<2.0	10	4.3	9.9	11	2.0	17	2.0	7569201
Acid Extractable Manganese (Mn)	mg/kg	24	84	51	87	110	2.0	210	2.0	7569201
Acid Extractable Mercury (Hg)	mg/kg	0.16	0.63	0.20	0.89	0.49	0.10	2.7	0.10	7569201
Acid Extractable Molybdenum (Mo)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<2.0	2.0	7569201
Acid Extractable Nickel (Ni)	mg/kg	2.7	7.8	2.8	7.5	9.1	2.0	13	2.0	7569201
Acid Extractable Rubidium (Rb)	mg/kg	2.4	10	3.3	10	11	2.0	21	2.0	7569201
Acid Extractable Selenium (Se)	mg/kg	0.86	1.0	<0.50	1.1	1.1	0.50	<0.50	0.50	7569201
Acid Extractable Silver (Ag)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7569201
Acid Extractable Strontium (Sr)	mg/kg	30	<5.0	<5.0	<5.0	<5.0	5.0	13	5.0	7569201
Acid Extractable Thallium (Tl)	mg/kg	<0.10	<0.10	<0.10	<0.10	0.12	0.10	0.17	0.10	7569201
Acid Extractable Tin (Sn)	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7569201
Acid Extractable Uranium (U)	mg/kg	0.25	0.57	0.25	0.60	0.55	0.10	0.44	0.10	7569201
Acid Extractable Vanadium (V)	mg/kg	7.1	14	4.8	13	18	2.0	18	2.0	7569201
Acid Extractable Zinc (Zn)	mg/kg	8.2	25	8.0	20	39	5.0	32	5.0	7569201
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BV Labs Job #: C1P5294
Report Date: 2021/10/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: 735-000106
Sampler Initials: SJ

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

BV Labs ID		QOP781		QOP782	QOP782			QOP783		
Sampling Date		2021/09/01 12:10		2021/09/01 13:13	2021/09/01 13:13			2021/09/01 14:45		
COC Number		N/A		N/A	N/A			N/A		
	UNITS	RA-SED-7	QC Batch	RA-SED-8	RA-SED-8 Lab-Dup	RDL	QC Batch	RA-SED-9	RDL	QC Batch

Metals										
Acid Extractable Aluminum (Al)	mg/kg	7200	7569201	8900	8500	10	7569199	9600	10	7569201
Acid Extractable Antimony (Sb)	mg/kg	73	7569201	81	81	2.0	7569199	<2.0	2.0	7569201
Acid Extractable Arsenic (As)	mg/kg	99000	7569201	110000	110000	2000	7569199	920	20	7569201
Acid Extractable Barium (Ba)	mg/kg	50	7569201	64	69	5.0	7569199	67	5.0	7569201
Acid Extractable Beryllium (Be)	mg/kg	<2.0	7569201	<2.0	<2.0	2.0	7569199	<2.0	2.0	7569201
Acid Extractable Bismuth (Bi)	mg/kg	3.3	7569201	5.4	3.6	2.0	7569199	<2.0	2.0	7569201
Acid Extractable Boron (B)	mg/kg	<50	7569201	<50	<50	50	7569199	<50	50	7569201
Acid Extractable Cadmium (Cd)	mg/kg	0.32	7569201	0.56	0.81	0.30	7569199	<0.30	0.30	7569201
Acid Extractable Chromium (Cr)	mg/kg	13	7569201	15	15	2.0	7569199	17	2.0	7569201
Acid Extractable Cobalt (Co)	mg/kg	110	7569201	130	130	1.0	7569199	2.3	1.0	7569201
Acid Extractable Copper (Cu)	mg/kg	25	7569201	36	30	2.0	7569199	11	2.0	7569201
Acid Extractable Iron (Fe)	mg/kg	93000	7569201	120000	110000	500	7569199	17000	50	7569201
Acid Extractable Lead (Pb)	mg/kg	88	7569201	120	100	0.50	7569199	28	0.50	7569201
Acid Extractable Lithium (Li)	mg/kg	13	7569201	18	17	2.0	7569199	20	2.0	7569201
Acid Extractable Manganese (Mn)	mg/kg	160	7569201	210	200	2.0	7569199	250	2.0	7569201
Acid Extractable Mercury (Hg)	mg/kg	11	7569201	6.4	5.7	0.10	7569199	1.4	0.10	7569201
Acid Extractable Molybdenum (Mo)	mg/kg	4.3	7569201	2.8	3.5	2.0	7569199	<2.0	2.0	7569201
Acid Extractable Nickel (Ni)	mg/kg	170	7569201	210	200	2.0	7569199	8.6	2.0	7569201
Acid Extractable Rubidium (Rb)	mg/kg	20	7569201	14	14	2.0	7569199	30	2.0	7569201
Acid Extractable Selenium (Se)	mg/kg	1.3	7569201	2.5	2.5	0.50	7569199	<0.50	0.50	7569201
Acid Extractable Silver (Ag)	mg/kg	2.1	7569201	3.4	1.9 (1)	0.50	7569199	<0.50	0.50	7569201
Acid Extractable Strontium (Sr)	mg/kg	8.9	7569201	26	26	5.0	7569199	9.7	5.0	7569201
Acid Extractable Thallium (Tl)	mg/kg	0.25	7569201	0.30	0.28	0.10	7569199	0.24	0.10	7569201
Acid Extractable Tin (Sn)	mg/kg	<1.0	7569201	1.4	<1.0	1.0	7569199	<1.0	1.0	7569201
Acid Extractable Uranium (U)	mg/kg	0.39	7569201	1.7	1.6	0.10	7569199	0.44	0.10	7569201
Acid Extractable Vanadium (V)	mg/kg	13	7569201	16	15	2.0	7569199	17	2.0	7569201
Acid Extractable Zinc (Zn)	mg/kg	31	7569201	64	54	5.0	7569199	32	5.0	7569201

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

(1) Poor RPD due to sample inhomogeneity. Verified by repeat digestion and analysis.



BV Labs Job #: C1P5294
Report Date: 2021/10/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: 735-000106
Sampler Initials: SJ

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

BV Labs ID		QOP784	QOP785		QOP786	QOP886	QOP886		
Sampling Date		2021/09/01 15:30	2021/09/02 10:00		2021/09/02 08:58	2021/09/02	2021/09/02		
COC Number		N/A	N/A		N/A	N/A	N/A		
	UNITS	RA-SED-10	RA-SED-11	RDL	RA-SED-12	RA-SED-DUP	RA-SED-DUP Lab-Dup	RDL	QC Batch

Metals									
Acid Extractable Aluminum (Al)	mg/kg	10000	15000	10	9100	8800	8700	10	7569201
Acid Extractable Antimony (Sb)	mg/kg	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	2.0	7569201
Acid Extractable Arsenic (As)	mg/kg	570	1000	20	140	140	130	2.0	7569201
Acid Extractable Barium (Ba)	mg/kg	59	96	5.0	21	20	20	5.0	7569201
Acid Extractable Beryllium (Be)	mg/kg	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	2.0	7569201
Acid Extractable Bismuth (Bi)	mg/kg	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	2.0	7569201
Acid Extractable Boron (B)	mg/kg	<50	<50	50	<50	<50	<50	50	7569201
Acid Extractable Cadmium (Cd)	mg/kg	<0.30	<0.30	0.30	<0.30	<0.30	<0.30	0.30	7569201
Acid Extractable Chromium (Cr)	mg/kg	18	24	2.0	11	11	11	2.0	7569201
Acid Extractable Cobalt (Co)	mg/kg	1.2	1.8	1.0	<1.0	<1.0	<1.0	1.0	7569201
Acid Extractable Copper (Cu)	mg/kg	6.6	11	2.0	3.8	3.7	3.7	2.0	7569201
Acid Extractable Iron (Fe)	mg/kg	18000	30000	50	6000	6600	6300	50	7569201
Acid Extractable Lead (Pb)	mg/kg	10	43	0.50	14	14	14	0.50	7569201
Acid Extractable Lithium (Li)	mg/kg	22	31	2.0	5.1	5.2	4.9	2.0	7569201
Acid Extractable Manganese (Mn)	mg/kg	270	400	2.0	78	78	74	2.0	7569201
Acid Extractable Mercury (Hg)	mg/kg	0.54	1.5	0.10	0.46	0.46	0.41	0.10	7569201
Acid Extractable Molybdenum (Mo)	mg/kg	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	2.0	7569201
Acid Extractable Nickel (Ni)	mg/kg	7.2	11	2.0	3.9	4.2	4.0	2.0	7569201
Acid Extractable Rubidium (Rb)	mg/kg	34	39	2.0	6.9	6.4	6.3	2.0	7569201
Acid Extractable Selenium (Se)	mg/kg	<0.50	<0.50	0.50	2.4	2.2	2.1	0.50	7569201
Acid Extractable Silver (Ag)	mg/kg	<0.50	<0.50	0.50	<0.50	<0.50	<0.50	0.50	7569201
Acid Extractable Strontium (Sr)	mg/kg	13	14	5.0	6.0	6.8	6.1	5.0	7569201
Acid Extractable Thallium (Tl)	mg/kg	0.23	0.28	0.10	<0.10	<0.10	<0.10	0.10	7569201
Acid Extractable Tin (Sn)	mg/kg	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	1.0	7569201
Acid Extractable Uranium (U)	mg/kg	0.44	0.59	0.10	1.5	1.4	1.5	0.10	7569201
Acid Extractable Vanadium (V)	mg/kg	19	27	2.0	8.3	7.9	7.7	2.0	7569201
Acid Extractable Zinc (Zn)	mg/kg	32	48	5.0	10	11	10	5.0	7569201

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



BV Labs Job #: C1P5294
Report Date: 2021/10/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: 735-000106
Sampler Initials: SJ

RESULTS OF ANALYSES OF TISSUE

BV Labs ID		QOP787	QOP788	QOP789	QOP790	QOP791		
Sampling Date		2021/08/31 17:30	2021/08/31 19:20	2021/09/01 12:05	2021/09/01 13:05	2021/09/01 15:05		
COC Number		N/A	N/A	N/A	N/A	N/A		
	UNITS	RA-TIS-1	RA-TIS-6	RA-TIS-7,8 & 9 COMPOSITE	RA-TIS-8	RA-TIS-9	RDL	QC Batch
Inorganics								
Weight	g	0.89	1.23	0.41	0.30	0.32	0.10	7588322
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BV Labs Job #: C1P5294
Report Date: 2021/10/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: 735-000106
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MERCURY BY COLD VAPOUR AA (TISSUE)

BV Labs ID		QOP787	QOP788	QOP789		
Sampling Date		2021/08/31 17:30	2021/08/31 19:20	2021/09/01 12:05		
COC Number		N/A	N/A	N/A		
	UNITS	RA-TIS-1	RA-TIS-6	RA-TIS-7,8 & 9 COMPOSITE	RDL	QC Batch
Metals						
Mercury (Hg)	mg/kg	0.060	0.19	0.13	0.010	7630727
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BV Labs Job #: C1P5294
Report Date: 2021/10/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: 735-000106
Sampler Initials: SJ

ELEMENTS BY ICP/MS (TISSUE)

BV Labs ID		QOP787		QOP788		QOP789		
Sampling Date		2021/08/31 17:30		2021/08/31 19:20		2021/09/01 12:05		
COC Number		N/A		N/A		N/A		
	UNITS	RA-TIS-1	RDL	RA-TIS-6	RDL	RA-TIS-7,8 & 9 COMPOSITE	RDL	QC Batch
Metals								
Aluminum (Al)	mg/kg	43	5.5	180	3.5	110	5.3	7621631
Antimony (Sb)	mg/kg	<1.1	1.1	<0.70	0.70	<1.1	1.1	7621631
Arsenic (As)	mg/kg	<1.1	1.1	10	0.70	170	1.1	7621631
Barium (Ba)	mg/kg	<3.3	3.3	<2.1	2.1	<3.2	3.2	7621631
Beryllium (Be)	mg/kg	<1.1	1.1	<0.70	0.70	<1.1	1.1	7621631
Boron (B)	mg/kg	<3.3	3.3	<2.1	2.1	<3.2	3.2	7621631
Cadmium (Cd)	mg/kg	<0.11	0.11	0.088	0.070	0.17	0.11	7621631
Chromium (Cr)	mg/kg	<1.1	1.1	<0.70	0.70	<1.1	1.1	7621631
Cobalt (Co)	mg/kg	<0.44	0.44	<0.28	0.28	<0.42	0.42	7621631
Copper (Cu)	mg/kg	5.1	1.1	3.8	0.70	2.4	1.1	7621631
Iron (Fe)	mg/kg	160	33	470	21	1100	32	7621631
Lead (Pb)	mg/kg	0.43	0.40	0.94	0.25	0.67	0.38	7621631
Lithium (Li)	mg/kg	<1.1	1.1	<0.70	0.70	<1.1	1.1	7621631
Manganese (Mn)	mg/kg	4.0	1.1	4.3	0.70	33	1.1	7621631
Molybdenum (Mo)	mg/kg	<1.1	1.1	<0.70	0.70	<1.1	1.1	7621631
Nickel (Ni)	mg/kg	<1.1	1.1	<0.70	0.70	<1.1	1.1	7621631
Selenium (Se)	mg/kg	<1.1	1.1	<0.70	0.70	<1.1	1.1	7621631
Silver (Ag)	mg/kg	<0.26	0.26	<0.17	0.17	<0.25	0.25	7621631
Strontium (Sr)	mg/kg	<3.3	3.3	<2.1	2.1	<3.2	3.2	7621631
Thallium (Tl)	mg/kg	<0.044	0.044	<0.028	0.028	<0.042	0.042	7621631
Tin (Sn)	mg/kg	<1.1	1.1	<0.70	0.70	<1.1	1.1	7621631
Uranium (U)	mg/kg	<0.044	0.044	<0.028	0.028	<0.042	0.042	7621631
Vanadium (V)	mg/kg	<1.1	1.1	<0.70	0.70	<1.1	1.1	7621631
Zinc (Zn)	mg/kg	45	3.3	17	2.1	16	3.2	7621631
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BV Labs Job #: C1P5294
Report Date: 2021/10/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: 735-000106
Sampler Initials: SJ

MERCURY BY COLD VAPOUR AA (WATER)

BV Labs ID		QOP763	QOP764	QOP765	QOP766		QOP767	QOP768		
Sampling Date		2021/09/01 08:55	2021/09/01 09:20	2021/09/01 10:40	2021/09/01 10:10		2021/09/01 10:21	2021/08/31 19:25		
COC Number		N/A	N/A	N/A	N/A		N/A	N/A		
	UNITS	RA-SW-1	RA-SW-2	RA-SW-3	RA-SW-4	QC Batch	RA-SW-5	RA-SW-6	RDL	QC Batch

Metals

Total Mercury (Hg)	ug/L	0.015 (1)	<0.013 (1)	<0.013 (1)	<0.013 (1)	7567452	<0.013 (1)	<0.013 (1)	0.013	7567509
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) Total mercury analysis was performed on a nitric preserved sample aliquot.

BV Labs ID		QOP769	QOP770	QOP771	QOP772	QOP773	QOP774	QOP792		
Sampling Date		2021/09/01 12:12	2021/09/01 13:07	2021/09/01 14:50	2021/09/01 15:33	2021/09/02 10:02	2021/09/02 09:03	2021/09/02		
COC Number		N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	UNITS	RA-SW-7	RA-SW-8	RA-SW-9	RA-SW-10	RA-SW-11	RA-SW-12	RA-SW-DUP	RDL	QC Batch

Metals

Total Mercury (Hg)	ug/L	0.013 (1)	0.015 (1)	0.018 (1)	0.020 (1)	0.020 (1)	0.020 (1)	0.022 (1)	0.013	7567509
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) Total mercury analysis was performed on a nitric preserved sample aliquot.



BV Labs Job #: C1P5294
Report Date: 2021/10/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: 735-000106
Sampler Initials: SJ

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QOP763	QOP764	QOP765	QOP766		QOP767		
Sampling Date		2021/09/01 08:55	2021/09/01 09:20	2021/09/01 10:40	2021/09/01 10:10		2021/09/01 10:21		
COC Number		N/A	N/A	N/A	N/A		N/A		
	UNITS	RA-SW-1	RA-SW-2	RA-SW-3	RA-SW-4	QC Batch	RA-SW-5	RDL	QC Batch
Metals									
Total Aluminum (Al)	ug/L	670	310	300	310	7563976	310	5.0	7567238
Total Antimony (Sb)	ug/L	<1.0	<1.0	<1.0	<1.0	7563976	<1.0	1.0	7567238
Total Arsenic (As)	ug/L	<1.0	6.6	7.1	6.7	7563976	6.9	1.0	7567238
Total Barium (Ba)	ug/L	4.3	2.0	2.1	2.0	7563976	2.3	1.0	7567238
Total Beryllium (Be)	ug/L	<1.0	<1.0	<1.0	<1.0	7563976	<1.0	1.0	7567238
Total Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	<2.0	7563976	<2.0	2.0	7567238
Total Boron (B)	ug/L	<50	<50	<50	<50	7563976	<50	50	7567238
Total Cadmium (Cd)	ug/L	0.021	0.014	0.012	0.011	7563976	0.014	0.010	7567238
Total Calcium (Ca)	ug/L	1100	540	560	510	7563976	550	100	7567238
Total Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	7563976	<1.0	1.0	7567238
Total Cobalt (Co)	ug/L	<0.40	<0.40	<0.40	<0.40	7563976	<0.40	0.40	7567238
Total Copper (Cu)	ug/L	<0.50	<0.50	<0.50	<0.50	7563976	<0.50	0.50	7567238
Total Iron (Fe)	ug/L	1000	520	550	520	7563976	550	50	7567238
Total Lead (Pb)	ug/L	1.0	0.51	0.54	0.50	7563976	0.54	0.50	7567238
Total Magnesium (Mg)	ug/L	770	380	400	360	7563976	400	100	7567238
Total Manganese (Mn)	ug/L	16	8.6	9.5	8.6	7563976	9.7	2.0	7567238
Total Molybdenum (Mo)	ug/L	<2.0	<2.0	<2.0	<2.0	7563976	<2.0	2.0	7567238
Total Nickel (Ni)	ug/L	<2.0	<2.0	<2.0	<2.0	7563976	<2.0	2.0	7567238
Total Phosphorus (P)	ug/L	<100	<100	<100	<100	7563976	<100	100	7567238
Total Potassium (K)	ug/L	210	300	300	280	7563976	290	100	7567238
Total Selenium (Se)	ug/L	<0.50	<0.50	<0.50	<0.50	7563976	<0.50	0.50	7567238
Total Silver (Ag)	ug/L	<0.10	<0.10	<0.10	<0.10	7563976	<0.10	0.10	7567238
Total Sodium (Na)	ug/L	4900	3700	3800	3600	7563976	3800	100	7567238
Total Strontium (Sr)	ug/L	13	5.5	5.8	5.4	7563976	5.8	2.0	7567238
Total Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	<0.10	7563976	<0.10	0.10	7567238
Total Tin (Sn)	ug/L	<2.0	<2.0	<2.0	<2.0	7563976	<2.0	2.0	7567238
Total Titanium (Ti)	ug/L	8.0	4.6	4.5	3.7	7563976	4.3	2.0	7567238
Total Uranium (U)	ug/L	<0.10	<0.10	<0.10	<0.10	7563976	<0.10	0.10	7567238
Total Vanadium (V)	ug/L	<2.0	<2.0	<2.0	<2.0	7563976	<2.0	2.0	7567238
Total Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	7563976	<5.0	5.0	7567238
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BV Labs Job #: C1P5294
Report Date: 2021/10/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: 735-000106
Sampler Initials: SJ

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QOP768		QOP769		QOP770	QOP771		QOP772		
Sampling Date		2021/08/31 19:25		2021/09/01 12:12		2021/09/01 13:07	2021/09/01 14:50		2021/09/01 15:33		
COC Number		N/A		N/A		N/A	N/A		N/A		
	UNITS	RA-SW-6	QC Batch	RA-SW-7	QC Batch	RA-SW-8	RA-SW-9	QC Batch	RA-SW-10	RDL	QC Batch

Metals											
Total Aluminum (Al)	ug/L	330	7563964	290	7563976	310	300	7563964	320	5.0	7563976
Total Antimony (Sb)	ug/L	<1.0	7563964	<1.0	7563976	<1.0	<1.0	7563964	<1.0	1.0	7563976
Total Arsenic (As)	ug/L	17	7563964	160	7563976	320	370	7563964	360	1.0	7563976
Total Barium (Ba)	ug/L	3.4	7563964	2.0	7563976	2.1	2.1	7563964	2.5	1.0	7563976
Total Beryllium (Be)	ug/L	<1.0	7563964	<1.0	7563976	<1.0	<1.0	7563964	<1.0	1.0	7563976
Total Bismuth (Bi)	ug/L	<2.0	7563964	<2.0	7563976	<2.0	<2.0	7563964	<2.0	2.0	7563976
Total Boron (B)	ug/L	<50	7563964	<50	7563976	<50	<50	7563964	<50	50	7563976
Total Cadmium (Cd)	ug/L	0.011	7563964	0.010	7563976	<0.010	<0.010	7563964	<0.010	0.010	7563976
Total Calcium (Ca)	ug/L	680	7563964	590	7563976	1100	1400	7563964	1400	100	7563976
Total Chromium (Cr)	ug/L	<1.0	7563964	<1.0	7563976	<1.0	<1.0	7563964	<1.0	1.0	7563976
Total Cobalt (Co)	ug/L	<0.40	7563964	<0.40	7563976	<0.40	<0.40	7563964	<0.40	0.40	7563976
Total Copper (Cu)	ug/L	<0.50	7563964	<0.50	7563976	<0.50	<0.50	7563964	<0.50	0.50	7563976
Total Iron (Fe)	ug/L	610	7563964	670	7563976	780	790	7563964	840	50	7563976
Total Lead (Pb)	ug/L	0.77	7563964	0.56	7563976	<0.50	<0.50	7563964	0.51	0.50	7563976
Total Magnesium (Mg)	ug/L	400	7563964	390	7563976	470	500	7563964	500	100	7563976
Total Manganese (Mn)	ug/L	11	7563964	15	7563976	32	24	7563964	17	2.0	7563976
Total Molybdenum (Mo)	ug/L	<2.0	7563964	<2.0	7563976	<2.0	<2.0	7563964	<2.0	2.0	7563976
Total Nickel (Ni)	ug/L	<2.0	7563964	<2.0	7563976	<2.0	<2.0	7563964	<2.0	2.0	7563976
Total Phosphorus (P)	ug/L	<100	7563964	<100	7563976	<100	<100	7563964	<100	100	7563976
Total Potassium (K)	ug/L	290	7563964	310	7563976	320	370	7563964	400	100	7563976
Total Selenium (Se)	ug/L	<0.50	7563964	<0.50	7563976	<0.50	<0.50	7563964	<0.50	0.50	7563976
Total Silver (Ag)	ug/L	<0.10	7563964	<0.10	7563976	<0.10	<0.10	7563964	<0.10	0.10	7563976
Total Sodium (Na)	ug/L	3900	7563964	3700	7563976	3900	4000	7563964	4200	100	7563976
Total Strontium (Sr)	ug/L	6.0	7563964	5.9	7563976	9.6	12	7563964	11	2.0	7563976
Total Thallium (Tl)	ug/L	<0.10	7563964	<0.10	7563976	<0.10	<0.10	7563964	<0.10	0.10	7563976
Total Tin (Sn)	ug/L	<2.0	7563964	<2.0	7563976	<2.0	<2.0	7563964	<2.0	2.0	7563976
Total Titanium (Ti)	ug/L	6.1	7563964	4.3	7563976	4.9	4.8	7563964	4.9	2.0	7563976
Total Uranium (U)	ug/L	<0.10	7563964	<0.10	7563976	<0.10	<0.10	7563964	<0.10	0.10	7563976
Total Vanadium (V)	ug/L	<2.0	7563964	<2.0	7563976	<2.0	<2.0	7563964	<2.0	2.0	7563976
Total Zinc (Zn)	ug/L	<5.0	7563964	<5.0	7563976	<5.0	<5.0	7563964	<5.0	5.0	7563976

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BV Labs Job #: C1P5294
Report Date: 2021/10/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: 735-000106
Sampler Initials: SJ

ELEMENTS BY ICP/MS (WATER)

BV Labs ID		QOP773		QOP774	QOP792		
Sampling Date		2021/09/02 10:02		2021/09/02 09:03	2021/09/02		
COC Number		N/A		N/A	N/A		
	UNITS	RA-SW-11	RDL	RA-SW-12	RA-SW-DUP	RDL	QC Batch
Metals							
Total Aluminum (Al)	ug/L	280	5.0	310	310	5.0	7563976
Total Antimony (Sb)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7563976
Total Arsenic (As)	ug/L	870	10	450	460	1.0	7563976
Total Barium (Ba)	ug/L	3.4	1.0	3.3	3.3	1.0	7563976
Total Beryllium (Be)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7563976
Total Bismuth (Bi)	ug/L	<2.0	2.0	<2.0	<2.0	2.0	7563976
Total Boron (B)	ug/L	<50	50	<50	<50	50	7563976
Total Cadmium (Cd)	ug/L	<0.010	0.010	<0.010	<0.010	0.010	7563976
Total Calcium (Ca)	ug/L	1600	100	1400	1500	100	7563976
Total Chromium (Cr)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7563976
Total Cobalt (Co)	ug/L	<0.40	0.40	<0.40	<0.40	0.40	7563976
Total Copper (Cu)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	7563976
Total Iron (Fe)	ug/L	2000	50	1700	1700	50	7563976
Total Lead (Pb)	ug/L	0.55	0.50	0.57	0.56	0.50	7563976
Total Magnesium (Mg)	ug/L	610	100	590	600	100	7563976
Total Manganese (Mn)	ug/L	23	2.0	25	25	2.0	7563976
Total Molybdenum (Mo)	ug/L	<2.0	2.0	<2.0	<2.0	2.0	7563976
Total Nickel (Ni)	ug/L	<2.0	2.0	<2.0	<2.0	2.0	7563976
Total Phosphorus (P)	ug/L	<100	100	<100	<100	100	7563976
Total Potassium (K)	ug/L	510	100	570	580	100	7563976
Total Selenium (Se)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	7563976
Total Silver (Ag)	ug/L	<0.10	0.10	<0.10	<0.10	0.10	7563976
Total Sodium (Na)	ug/L	4500	100	4600	4700	100	7563976
Total Strontium (Sr)	ug/L	12	2.0	10	10	2.0	7563976
Total Thallium (Tl)	ug/L	<0.10	0.10	<0.10	<0.10	0.10	7563976
Total Tin (Sn)	ug/L	<2.0	2.0	<2.0	<2.0	2.0	7563976
Total Titanium (Ti)	ug/L	4.7	2.0	5.3	5.2	2.0	7563976
Total Uranium (U)	ug/L	<0.10	0.10	<0.10	<0.10	0.10	7563976
Total Vanadium (V)	ug/L	<2.0	2.0	<2.0	<2.0	2.0	7563976
Total Zinc (Zn)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	7563976
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	8.3°C
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Sample QOP787 [RA-TIS-1] : Elevated reporting limits for trace metals due to a low sample weight used in the digestion.

Sample QOP788 [RA-TIS-6] : Elevated reporting limits for trace metals due to a low sample weight used in the digestion.

Sample QOP789 [RA-TIS-7,8 & 9 COMPOSITE] : Elevated reporting limits for trace metals due to a low sample weight used in the digestion.

Results relate only to the items tested.



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QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7563964	BAN	Matrix Spike	Total Aluminum (Al)	2021/09/09		93	%	80 - 120
			Total Antimony (Sb)	2021/09/09		100	%	80 - 120
			Total Arsenic (As)	2021/09/09		92	%	80 - 120
			Total Barium (Ba)	2021/09/09		90	%	80 - 120
			Total Beryllium (Be)	2021/09/09		91	%	80 - 120
			Total Bismuth (Bi)	2021/09/09		94	%	80 - 120
			Total Boron (B)	2021/09/09		90	%	80 - 120
			Total Cadmium (Cd)	2021/09/09		93	%	80 - 120
			Total Calcium (Ca)	2021/09/09		NC	%	80 - 120
			Total Chromium (Cr)	2021/09/09		94	%	80 - 120
			Total Cobalt (Co)	2021/09/09		94	%	80 - 120
			Total Copper (Cu)	2021/09/09		93	%	80 - 120
			Total Iron (Fe)	2021/09/09		93	%	80 - 120
			Total Lead (Pb)	2021/09/09		93	%	80 - 120
			Total Magnesium (Mg)	2021/09/09		88	%	80 - 120
			Total Manganese (Mn)	2021/09/09		92	%	80 - 120
			Total Molybdenum (Mo)	2021/09/09		102	%	80 - 120
			Total Nickel (Ni)	2021/09/09		94	%	80 - 120
			Total Phosphorus (P)	2021/09/09		97	%	80 - 120
			Total Potassium (K)	2021/09/09		93	%	80 - 120
			Total Selenium (Se)	2021/09/09		97	%	80 - 120
			Total Silver (Ag)	2021/09/09		95	%	80 - 120
			Total Sodium (Na)	2021/09/09		90	%	80 - 120
			Total Strontium (Sr)	2021/09/09		NC	%	80 - 120
			Total Thallium (Tl)	2021/09/09		95	%	80 - 120
			Total Tin (Sn)	2021/09/09		98	%	80 - 120
			Total Titanium (Ti)	2021/09/09		94	%	80 - 120
			Total Uranium (U)	2021/09/09		99	%	80 - 120
			Total Vanadium (V)	2021/09/09		95	%	80 - 120
			Total Zinc (Zn)	2021/09/09		94	%	80 - 120
7563964	BAN	Spiked Blank	Total Aluminum (Al)	2021/09/09		100	%	80 - 120
			Total Antimony (Sb)	2021/09/09		98	%	80 - 120
			Total Arsenic (As)	2021/09/09		94	%	80 - 120
			Total Barium (Ba)	2021/09/09		94	%	80 - 120
			Total Beryllium (Be)	2021/09/09		91	%	80 - 120
			Total Bismuth (Bi)	2021/09/09		95	%	80 - 120
			Total Boron (B)	2021/09/09		91	%	80 - 120
			Total Cadmium (Cd)	2021/09/09		95	%	80 - 120
			Total Calcium (Ca)	2021/09/09		101	%	80 - 120
			Total Chromium (Cr)	2021/09/09		96	%	80 - 120
			Total Cobalt (Co)	2021/09/09		97	%	80 - 120
			Total Copper (Cu)	2021/09/09		97	%	80 - 120
			Total Iron (Fe)	2021/09/09		99	%	80 - 120
			Total Lead (Pb)	2021/09/09		95	%	80 - 120
			Total Magnesium (Mg)	2021/09/09		103	%	80 - 120
			Total Manganese (Mn)	2021/09/09		99	%	80 - 120
			Total Molybdenum (Mo)	2021/09/09		100	%	80 - 120
			Total Nickel (Ni)	2021/09/09		99	%	80 - 120
			Total Phosphorus (P)	2021/09/09		101	%	80 - 120
			Total Potassium (K)	2021/09/09		97	%	80 - 120
			Total Selenium (Se)	2021/09/09		98	%	80 - 120
			Total Silver (Ag)	2021/09/09		96	%	80 - 120



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7563964	BAN	Method Blank		Total Sodium (Na)	2021/09/09		99	%	80 - 120
				Total Strontium (Sr)	2021/09/09		96	%	80 - 120
				Total Thallium (Tl)	2021/09/09		96	%	80 - 120
				Total Tin (Sn)	2021/09/09		98	%	80 - 120
				Total Titanium (Ti)	2021/09/09		98	%	80 - 120
				Total Uranium (U)	2021/09/09		100	%	80 - 120
				Total Vanadium (V)	2021/09/09		98	%	80 - 120
				Total Zinc (Zn)	2021/09/09		98	%	80 - 120
				Total Aluminum (Al)	2021/09/09	<5.0		ug/L	
				Total Antimony (Sb)	2021/09/09	<1.0		ug/L	
				Total Arsenic (As)	2021/09/09	<1.0		ug/L	
				Total Barium (Ba)	2021/09/09	<1.0		ug/L	
				Total Beryllium (Be)	2021/09/09	<1.0		ug/L	
				Total Bismuth (Bi)	2021/09/09	<2.0		ug/L	
				Total Boron (B)	2021/09/09	<50		ug/L	
				Total Cadmium (Cd)	2021/09/09	<0.010		ug/L	
				Total Calcium (Ca)	2021/09/09	<100		ug/L	
				Total Chromium (Cr)	2021/09/09	<1.0		ug/L	
				Total Cobalt (Co)	2021/09/09	<0.40		ug/L	
				Total Copper (Cu)	2021/09/09	<0.50		ug/L	
				Total Iron (Fe)	2021/09/09	<50		ug/L	
				Total Lead (Pb)	2021/09/09	<0.50		ug/L	
				Total Magnesium (Mg)	2021/09/09	<100		ug/L	
				Total Manganese (Mn)	2021/09/09	<2.0		ug/L	
				Total Molybdenum (Mo)	2021/09/09	<2.0		ug/L	
				Total Nickel (Ni)	2021/09/09	<2.0		ug/L	
				Total Phosphorus (P)	2021/09/09	<100		ug/L	
				Total Potassium (K)	2021/09/09	<100		ug/L	
				Total Selenium (Se)	2021/09/09	<0.50		ug/L	
				Total Silver (Ag)	2021/09/09	<0.10		ug/L	
				Total Sodium (Na)	2021/09/09	<100		ug/L	
				Total Strontium (Sr)	2021/09/09	<2.0		ug/L	
				Total Thallium (Tl)	2021/09/09	<0.10		ug/L	
				Total Tin (Sn)	2021/09/09	<2.0		ug/L	
				Total Titanium (Ti)	2021/09/09	<2.0		ug/L	
				Total Uranium (U)	2021/09/09	<0.10		ug/L	
				Total Vanadium (V)	2021/09/09	<2.0		ug/L	
				Total Zinc (Zn)	2021/09/09	<5.0		ug/L	
7563964	BAN	RPD		Total Aluminum (Al)	2021/09/09	15		%	20
				Total Antimony (Sb)	2021/09/09	NC		%	20
				Total Arsenic (As)	2021/09/09	NC		%	20
				Total Barium (Ba)	2021/09/09	NC		%	20
				Total Beryllium (Be)	2021/09/09	NC		%	20
				Total Bismuth (Bi)	2021/09/09	NC		%	20
				Total Boron (B)	2021/09/09	NC		%	20
				Total Cadmium (Cd)	2021/09/09	NC		%	20
				Total Calcium (Ca)	2021/09/09	1.5		%	20
				Total Chromium (Cr)	2021/09/09	NC		%	20
				Total Cobalt (Co)	2021/09/09	NC		%	20
				Total Copper (Cu)	2021/09/09	0.57		%	20
				Total Iron (Fe)	2021/09/09	NC		%	20
				Total Lead (Pb)	2021/09/09	NC		%	20



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7563976	BAN	Matrix Spike	Total Magnesium (Mg)	2021/09/09	4.2		%	20
			Total Manganese (Mn)	2021/09/09	3.2		%	20
			Total Molybdenum (Mo)	2021/09/09	1.6		%	20
			Total Nickel (Ni)	2021/09/09	NC		%	20
			Total Phosphorus (P)	2021/09/09	NC		%	20
			Total Potassium (K)	2021/09/09	3.4		%	20
			Total Selenium (Se)	2021/09/09	NC		%	20
			Total Silver (Ag)	2021/09/09	NC		%	20
			Total Sodium (Na)	2021/09/09	1.9		%	20
			Total Strontium (Sr)	2021/09/09	1.4		%	20
			Total Thallium (Tl)	2021/09/09	NC		%	20
			Total Tin (Sn)	2021/09/09	NC		%	20
			Total Titanium (Ti)	2021/09/09	NC		%	20
			Total Uranium (U)	2021/09/09	3.1		%	20
			Total Vanadium (V)	2021/09/09	NC		%	20
			Total Zinc (Zn)	2021/09/09	NC		%	20
			Total Aluminum (Al)	2021/09/09		95	%	80 - 120
			Total Antimony (Sb)	2021/09/09		98	%	80 - 120
			Total Arsenic (As)	2021/09/09		91	%	80 - 120
			Total Barium (Ba)	2021/09/09		94	%	80 - 120
			Total Beryllium (Be)	2021/09/09		96	%	80 - 120
			Total Bismuth (Bi)	2021/09/09		94	%	80 - 120
			Total Boron (B)	2021/09/09		97	%	80 - 120
			Total Cadmium (Cd)	2021/09/09		94	%	80 - 120
			Total Calcium (Ca)	2021/09/09		101	%	80 - 120
			Total Chromium (Cr)	2021/09/09		91	%	80 - 120
			Total Cobalt (Co)	2021/09/09		91	%	80 - 120
			Total Copper (Cu)	2021/09/09		93	%	80 - 120
			Total Iron (Fe)	2021/09/09		98	%	80 - 120
			Total Lead (Pb)	2021/09/09		96	%	80 - 120
			Total Magnesium (Mg)	2021/09/09		97	%	80 - 120
			Total Manganese (Mn)	2021/09/09		95	%	80 - 120
			Total Molybdenum (Mo)	2021/09/09		97	%	80 - 120
			Total Nickel (Ni)	2021/09/09		93	%	80 - 120
			Total Phosphorus (P)	2021/09/09		102	%	80 - 120
			Total Potassium (K)	2021/09/09		96	%	80 - 120
			Total Selenium (Se)	2021/09/09		96	%	80 - 120
			Total Silver (Ag)	2021/09/09		95	%	80 - 120
			Total Sodium (Na)	2021/09/09		96	%	80 - 120
			Total Strontium (Sr)	2021/09/09		95	%	80 - 120
			Total Thallium (Tl)	2021/09/09		95	%	80 - 120
			Total Tin (Sn)	2021/09/09		97	%	80 - 120
			Total Titanium (Ti)	2021/09/09		91	%	80 - 120
			Total Uranium (U)	2021/09/09		97	%	80 - 120
			Total Vanadium (V)	2021/09/09		95	%	80 - 120
			Total Zinc (Zn)	2021/09/09		93	%	80 - 120
7563976	BAN	Spiked Blank	Total Aluminum (Al)	2021/09/09		98	%	80 - 120
			Total Antimony (Sb)	2021/09/09		97	%	80 - 120
			Total Arsenic (As)	2021/09/09		93	%	80 - 120
			Total Barium (Ba)	2021/09/09		95	%	80 - 120
			Total Beryllium (Be)	2021/09/09		96	%	80 - 120
			Total Bismuth (Bi)	2021/09/09		97	%	80 - 120



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7563976	BAN	Method Blank	Total Boron (B)	2021/09/09		99	%	80 - 120
			Total Cadmium (Cd)	2021/09/09		95	%	80 - 120
			Total Calcium (Ca)	2021/09/09		101	%	80 - 120
			Total Chromium (Cr)	2021/09/09		92	%	80 - 120
			Total Cobalt (Co)	2021/09/09		92	%	80 - 120
			Total Copper (Cu)	2021/09/09		95	%	80 - 120
			Total Iron (Fe)	2021/09/09		100	%	80 - 120
			Total Lead (Pb)	2021/09/09		99	%	80 - 120
			Total Magnesium (Mg)	2021/09/09		100	%	80 - 120
			Total Manganese (Mn)	2021/09/09		98	%	80 - 120
			Total Molybdenum (Mo)	2021/09/09		99	%	80 - 120
			Total Nickel (Ni)	2021/09/09		96	%	80 - 120
			Total Phosphorus (P)	2021/09/09		104	%	80 - 120
			Total Potassium (K)	2021/09/09		97	%	80 - 120
			Total Selenium (Se)	2021/09/09		96	%	80 - 120
			Total Silver (Ag)	2021/09/09		96	%	80 - 120
			Total Sodium (Na)	2021/09/09		99	%	80 - 120
			Total Strontium (Sr)	2021/09/09		97	%	80 - 120
			Total Thallium (Tl)	2021/09/09		97	%	80 - 120
			Total Tin (Sn)	2021/09/09		100	%	80 - 120
			Total Titanium (Ti)	2021/09/09		98	%	80 - 120
			Total Uranium (U)	2021/09/09		100	%	80 - 120
			Total Vanadium (V)	2021/09/09		98	%	80 - 120
			Total Zinc (Zn)	2021/09/09		95	%	80 - 120
			Total Aluminum (Al)	2021/09/10	<5.0		ug/L	
			Total Antimony (Sb)	2021/09/10	<1.0		ug/L	
			Total Arsenic (As)	2021/09/10	<1.0		ug/L	
			Total Barium (Ba)	2021/09/10	<1.0		ug/L	
			Total Beryllium (Be)	2021/09/10	<1.0		ug/L	
			Total Bismuth (Bi)	2021/09/10	<2.0		ug/L	
			Total Boron (B)	2021/09/10	<50		ug/L	
			Total Cadmium (Cd)	2021/09/10	<0.010		ug/L	
			Total Calcium (Ca)	2021/09/10	<100		ug/L	
			Total Chromium (Cr)	2021/09/10	<1.0		ug/L	
			Total Cobalt (Co)	2021/09/10	<0.40		ug/L	
			Total Copper (Cu)	2021/09/10	2.1, RDL=0.50 (1)		ug/L	
			Total Iron (Fe)	2021/09/10	<50		ug/L	
			Total Lead (Pb)	2021/09/10	<0.50		ug/L	
			Total Magnesium (Mg)	2021/09/10	<100		ug/L	
			Total Manganese (Mn)	2021/09/10	<2.0		ug/L	
			Total Molybdenum (Mo)	2021/09/10	<2.0		ug/L	
			Total Nickel (Ni)	2021/09/10	<2.0		ug/L	
			Total Phosphorus (P)	2021/09/10	<100		ug/L	
			Total Potassium (K)	2021/09/10	<100		ug/L	
			Total Selenium (Se)	2021/09/10	<0.50		ug/L	
			Total Silver (Ag)	2021/09/10	<0.10		ug/L	
			Total Sodium (Na)	2021/09/10	<100		ug/L	
			Total Strontium (Sr)	2021/09/10	<2.0		ug/L	
			Total Thallium (Tl)	2021/09/10	<0.10		ug/L	
			Total Tin (Sn)	2021/09/10	<2.0		ug/L	
			Total Titanium (Ti)	2021/09/10	<2.0		ug/L	



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7563976	BAN	RPD	Total Uranium (U)	2021/09/10	<0.10		ug/L	
			Total Vanadium (V)	2021/09/10	<2.0		ug/L	
			Total Zinc (Zn)	2021/09/10	<5.0		ug/L	
			Total Aluminum (Al)	2021/09/09	NC		%	20
			Total Antimony (Sb)	2021/09/09	NC		%	20
			Total Arsenic (As)	2021/09/09	NC		%	20
			Total Barium (Ba)	2021/09/09	NC		%	20
			Total Beryllium (Be)	2021/09/09	NC		%	20
			Total Bismuth (Bi)	2021/09/09	NC		%	20
			Total Boron (B)	2021/09/09	NC		%	20
			Total Cadmium (Cd)	2021/09/09	NC		%	20
			Total Calcium (Ca)	2021/09/09	0.36		%	20
			Total Chromium (Cr)	2021/09/09	NC		%	20
			Total Cobalt (Co)	2021/09/09	NC		%	20
			Total Iron (Fe)	2021/09/09	NC		%	20
			Total Lead (Pb)	2021/09/09	NC		%	20
			Total Magnesium (Mg)	2021/09/09	NC		%	20
			Total Manganese (Mn)	2021/09/09	NC		%	20
			Total Molybdenum (Mo)	2021/09/09	6.0		%	20
			Total Nickel (Ni)	2021/09/09	NC		%	20
			Total Phosphorus (P)	2021/09/09	NC		%	20
			Total Potassium (K)	2021/09/09	1.9		%	20
			Total Selenium (Se)	2021/09/09	NC		%	20
			Total Silver (Ag)	2021/09/09	NC		%	20
			Total Sodium (Na)	2021/09/09	0.28		%	20
			Total Strontium (Sr)	2021/09/09	4.1		%	20
			Total Thallium (Tl)	2021/09/09	NC		%	20
			Total Tin (Sn)	2021/09/09	NC		%	20
			Total Titanium (Ti)	2021/09/09	NC		%	20
			Total Uranium (U)	2021/09/09	12		%	20
			Total Vanadium (V)	2021/09/09	NC		%	20
			Total Zinc (Zn)	2021/09/09	1.4		%	20
7567238	BAN	Matrix Spike	Total Aluminum (Al)	2021/09/10		97	%	80 - 120
			Total Antimony (Sb)	2021/09/10		99	%	80 - 120
			Total Arsenic (As)	2021/09/10		91	%	80 - 120
			Total Barium (Ba)	2021/09/10		95	%	80 - 120
			Total Beryllium (Be)	2021/09/10		93	%	80 - 120
			Total Bismuth (Bi)	2021/09/10		97	%	80 - 120
			Total Boron (B)	2021/09/10		95	%	80 - 120
			Total Cadmium (Cd)	2021/09/10		94	%	80 - 120
			Total Calcium (Ca)	2021/09/10		101	%	80 - 120
			Total Chromium (Cr)	2021/09/10		96	%	80 - 120
			Total Cobalt (Co)	2021/09/10		97	%	80 - 120
			Total Copper (Cu)	2021/09/10		NC	%	80 - 120
			Total Iron (Fe)	2021/09/10		99	%	80 - 120
			Total Lead (Pb)	2021/09/10		97	%	80 - 120
			Total Magnesium (Mg)	2021/09/10		102	%	80 - 120
			Total Manganese (Mn)	2021/09/10		97	%	80 - 120
			Total Molybdenum (Mo)	2021/09/10		103	%	80 - 120
			Total Nickel (Ni)	2021/09/10		NC	%	80 - 120
			Total Phosphorus (P)	2021/09/10		100	%	80 - 120
			Total Potassium (K)	2021/09/10		99	%	80 - 120



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7567238	BAN	Spiked Blank	Total Selenium (Se)	2021/09/10		94	%	80 - 120
			Total Silver (Ag)	2021/09/10		95	%	80 - 120
			Total Sodium (Na)	2021/09/10		100	%	80 - 120
			Total Strontium (Sr)	2021/09/10		96	%	80 - 120
			Total Thallium (Tl)	2021/09/10		97	%	80 - 120
			Total Tin (Sn)	2021/09/10		99	%	80 - 120
			Total Titanium (Ti)	2021/09/10		95	%	80 - 120
			Total Uranium (U)	2021/09/10		103	%	80 - 120
			Total Vanadium (V)	2021/09/10		97	%	80 - 120
			Total Zinc (Zn)	2021/09/10		NC	%	80 - 120
			Total Aluminum (Al)	2021/09/10		99	%	80 - 120
			Total Antimony (Sb)	2021/09/10		98	%	80 - 120
			Total Arsenic (As)	2021/09/10		92	%	80 - 120
			Total Barium (Ba)	2021/09/10		95	%	80 - 120
			Total Beryllium (Be)	2021/09/10		93	%	80 - 120
			Total Bismuth (Bi)	2021/09/10		97	%	80 - 120
			Total Boron (B)	2021/09/10		104	%	80 - 120
			Total Cadmium (Cd)	2021/09/10		93	%	80 - 120
			Total Calcium (Ca)	2021/09/10		100	%	80 - 120
			Total Chromium (Cr)	2021/09/10		96	%	80 - 120
			Total Cobalt (Co)	2021/09/10		97	%	80 - 120
			Total Copper (Cu)	2021/09/10		98	%	80 - 120
			Total Iron (Fe)	2021/09/10		101	%	80 - 120
			Total Lead (Pb)	2021/09/10		97	%	80 - 120
			Total Magnesium (Mg)	2021/09/10		102	%	80 - 120
			Total Manganese (Mn)	2021/09/10		98	%	80 - 120
			Total Molybdenum (Mo)	2021/09/10		101	%	80 - 120
			Total Nickel (Ni)	2021/09/10		98	%	80 - 120
			Total Phosphorus (P)	2021/09/10		102	%	80 - 120
			Total Potassium (K)	2021/09/10		103	%	80 - 120
			Total Selenium (Se)	2021/09/10		93	%	80 - 120
			Total Silver (Ag)	2021/09/10		95	%	80 - 120
			Total Sodium (Na)	2021/09/10		101	%	80 - 120
			Total Strontium (Sr)	2021/09/10		96	%	80 - 120
			Total Thallium (Tl)	2021/09/10		98	%	80 - 120
			Total Tin (Sn)	2021/09/10		96	%	80 - 120
			Total Titanium (Ti)	2021/09/10		100	%	80 - 120
			Total Uranium (U)	2021/09/10		104	%	80 - 120
			Total Vanadium (V)	2021/09/10		99	%	80 - 120
			Total Zinc (Zn)	2021/09/10		95	%	80 - 120
7567238	BAN	Method Blank	Total Aluminum (Al)	2021/09/10	<5.0		ug/L	
			Total Antimony (Sb)	2021/09/10	<1.0		ug/L	
			Total Arsenic (As)	2021/09/10	<1.0		ug/L	
			Total Barium (Ba)	2021/09/10	<1.0		ug/L	
			Total Beryllium (Be)	2021/09/10	<1.0		ug/L	
			Total Bismuth (Bi)	2021/09/10	<2.0		ug/L	
			Total Boron (B)	2021/09/10	<50		ug/L	
			Total Cadmium (Cd)	2021/09/10	<0.010		ug/L	
			Total Calcium (Ca)	2021/09/10	<100		ug/L	
			Total Chromium (Cr)	2021/09/10	<1.0		ug/L	
			Total Cobalt (Co)	2021/09/10	<0.40		ug/L	
			Total Copper (Cu)	2021/09/10	<0.50		ug/L	



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Iron (Fe)	2021/09/10	<50		ug/L	
			Total Lead (Pb)	2021/09/10	<0.50		ug/L	
			Total Magnesium (Mg)	2021/09/10	<100		ug/L	
			Total Manganese (Mn)	2021/09/10	<2.0		ug/L	
			Total Molybdenum (Mo)	2021/09/10	<2.0		ug/L	
			Total Nickel (Ni)	2021/09/10	<2.0		ug/L	
			Total Phosphorus (P)	2021/09/10	<100		ug/L	
			Total Potassium (K)	2021/09/10	<100		ug/L	
			Total Selenium (Se)	2021/09/10	<0.50		ug/L	
			Total Silver (Ag)	2021/09/10	<0.10		ug/L	
			Total Sodium (Na)	2021/09/10	<100		ug/L	
			Total Strontium (Sr)	2021/09/10	<2.0		ug/L	
			Total Thallium (Tl)	2021/09/10	<0.10		ug/L	
			Total Tin (Sn)	2021/09/10	<2.0		ug/L	
			Total Titanium (Ti)	2021/09/10	<2.0		ug/L	
			Total Uranium (U)	2021/09/10	<0.10		ug/L	
			Total Vanadium (V)	2021/09/10	<2.0		ug/L	
			Total Zinc (Zn)	2021/09/10	<5.0		ug/L	
7567238	BAN	RPD	Total Copper (Cu)	2021/09/10	1.8		%	20
			Total Lead (Pb)	2021/09/10	NC		%	20
7567452	NHU	Matrix Spike	Total Mercury (Hg)	2021/09/10		100	%	80 - 120
7567452	NHU	Spiked Blank	Total Mercury (Hg)	2021/09/10		100	%	80 - 120
7567452	NHU	Method Blank	Total Mercury (Hg)	2021/09/10	<0.013		ug/L	
7567452	NHU	RPD	Total Mercury (Hg)	2021/09/10	NC		%	20
7567509	NHU	Matrix Spike	Total Mercury (Hg)	2021/09/10		100	%	80 - 120
7567509	NHU	Spiked Blank	Total Mercury (Hg)	2021/09/10		101	%	80 - 120
7567509	NHU	Method Blank	Total Mercury (Hg)	2021/09/10	<0.013		ug/L	
7567509	NHU	RPD	Total Mercury (Hg)	2021/09/10	NC		%	20
7569199	BAN	Matrix Spike [QOP782-01]	Acid Extractable Antimony (Sb)	2021/09/13		NC	%	75 - 125
			Acid Extractable Arsenic (As)	2021/09/13		NC	%	75 - 125
			Acid Extractable Barium (Ba)	2021/09/13		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2021/09/13		103	%	75 - 125
			Acid Extractable Bismuth (Bi)	2021/09/13		NC	%	75 - 125
			Acid Extractable Boron (B)	2021/09/13		100	%	75 - 125
			Acid Extractable Cadmium (Cd)	2021/09/13		97	%	75 - 125
			Acid Extractable Chromium (Cr)	2021/09/13		99	%	75 - 125
			Acid Extractable Cobalt (Co)	2021/09/13		NC	%	75 - 125
			Acid Extractable Copper (Cu)	2021/09/13		101	%	75 - 125
			Acid Extractable Lead (Pb)	2021/09/13		NC	%	75 - 125
			Acid Extractable Lithium (Li)	2021/09/13		108	%	75 - 125
			Acid Extractable Manganese (Mn)	2021/09/13		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2021/09/13		93	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2021/09/13		97	%	75 - 125
			Acid Extractable Nickel (Ni)	2021/09/13		NC	%	75 - 125
			Acid Extractable Rubidium (Rb)	2021/09/13		98	%	75 - 125
			Acid Extractable Selenium (Se)	2021/09/13		95	%	75 - 125
			Acid Extractable Silver (Ag)	2021/09/13		88	%	75 - 125
			Acid Extractable Strontium (Sr)	2021/09/13		100	%	75 - 125
			Acid Extractable Thallium (Tl)	2021/09/13		99	%	75 - 125
			Acid Extractable Tin (Sn)	2021/09/13		90	%	75 - 125
			Acid Extractable Uranium (U)	2021/09/13		102	%	75 - 125



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7569199	BAN	Spiked Blank	Acid Extractable Vanadium (V)	2021/09/13		99	%	75 - 125
			Acid Extractable Zinc (Zn)	2021/09/13		NC	%	75 - 125
			Acid Extractable Antimony (Sb)	2021/09/10		102	%	75 - 125
			Acid Extractable Arsenic (As)	2021/09/10		97	%	75 - 125
			Acid Extractable Barium (Ba)	2021/09/10		100	%	75 - 125
			Acid Extractable Beryllium (Be)	2021/09/10		101	%	75 - 125
			Acid Extractable Bismuth (Bi)	2021/09/10		102	%	75 - 125
			Acid Extractable Boron (B)	2021/09/10		104	%	75 - 125
			Acid Extractable Cadmium (Cd)	2021/09/10		96	%	75 - 125
			Acid Extractable Chromium (Cr)	2021/09/10		102	%	75 - 125
			Acid Extractable Cobalt (Co)	2021/09/10		101	%	75 - 125
			Acid Extractable Copper (Cu)	2021/09/10		100	%	75 - 125
			Acid Extractable Lead (Pb)	2021/09/10		102	%	75 - 125
			Acid Extractable Lithium (Li)	2021/09/10		107	%	75 - 125
			Acid Extractable Manganese (Mn)	2021/09/10		101	%	75 - 125
			Acid Extractable Mercury (Hg)	2021/09/10		101	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2021/09/10		107	%	75 - 125
			Acid Extractable Nickel (Ni)	2021/09/10		100	%	75 - 125
			Acid Extractable Rubidium (Rb)	2021/09/10		101	%	75 - 125
			Acid Extractable Selenium (Se)	2021/09/10		96	%	75 - 125
			Acid Extractable Silver (Ag)	2021/09/10		100	%	75 - 125
			Acid Extractable Strontium (Sr)	2021/09/10		99	%	75 - 125
			Acid Extractable Thallium (Tl)	2021/09/10		103	%	75 - 125
			Acid Extractable Tin (Sn)	2021/09/10		107	%	75 - 125
			Acid Extractable Uranium (U)	2021/09/10		103	%	75 - 125
			Acid Extractable Vanadium (V)	2021/09/10		102	%	75 - 125
			Acid Extractable Zinc (Zn)	2021/09/10		93	%	75 - 125
7569199	BAN	Method Blank	Acid Extractable Aluminum (Al)	2021/09/10	<10		mg/kg	
			Acid Extractable Antimony (Sb)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Arsenic (As)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Barium (Ba)	2021/09/10	<5.0		mg/kg	
			Acid Extractable Beryllium (Be)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Bismuth (Bi)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Boron (B)	2021/09/10	<50		mg/kg	
			Acid Extractable Cadmium (Cd)	2021/09/10	<0.30		mg/kg	
			Acid Extractable Chromium (Cr)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Cobalt (Co)	2021/09/10	<1.0		mg/kg	
			Acid Extractable Copper (Cu)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Iron (Fe)	2021/09/10	<50		mg/kg	
			Acid Extractable Lead (Pb)	2021/09/10	<0.50		mg/kg	
			Acid Extractable Lithium (Li)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Manganese (Mn)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Mercury (Hg)	2021/09/10	<0.10		mg/kg	
			Acid Extractable Molybdenum (Mo)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Nickel (Ni)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Rubidium (Rb)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Selenium (Se)	2021/09/10	<0.50		mg/kg	
			Acid Extractable Silver (Ag)	2021/09/10	<0.50		mg/kg	
			Acid Extractable Strontium (Sr)	2021/09/10	<5.0		mg/kg	
			Acid Extractable Thallium (Tl)	2021/09/10	<0.10		mg/kg	
			Acid Extractable Tin (Sn)	2021/09/10	<1.0		mg/kg	
			Acid Extractable Uranium (U)	2021/09/10	<0.10		mg/kg	



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7569199	BAN	RPD [QOP782-01]	Acid Extractable Vanadium (V)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Zinc (Zn)	2021/09/10	<5.0		mg/kg	
			Acid Extractable Aluminum (Al)	2021/09/13	5.1		%	35
			Acid Extractable Antimony (Sb)	2021/09/13	0.72		%	35
			Acid Extractable Arsenic (As)	2021/09/13	3.9		%	35
			Acid Extractable Barium (Ba)	2021/09/13	8.3		%	35
			Acid Extractable Beryllium (Be)	2021/09/13	NC		%	35
			Acid Extractable Bismuth (Bi)	2021/09/13	NC		%	35
			Acid Extractable Boron (B)	2021/09/13	NC		%	35
			Acid Extractable Cadmium (Cd)	2021/09/13	NC		%	35
			Acid Extractable Chromium (Cr)	2021/09/13	2.4		%	35
			Acid Extractable Cobalt (Co)	2021/09/13	4.1		%	35
			Acid Extractable Copper (Cu)	2021/09/13	16		%	35
			Acid Extractable Iron (Fe)	2021/09/13	5.4		%	35
			Acid Extractable Lead (Pb)	2021/09/13	16		%	35
			Acid Extractable Lithium (Li)	2021/09/13	5.0		%	35
			Acid Extractable Manganese (Mn)	2021/09/13	2.9		%	35
			Acid Extractable Mercury (Hg)	2021/09/13	12		%	35
			Acid Extractable Molybdenum (Mo)	2021/09/13	22		%	35
			Acid Extractable Nickel (Ni)	2021/09/13	2.9		%	35
			Acid Extractable Rubidium (Rb)	2021/09/13	2.6		%	35
			Acid Extractable Selenium (Se)	2021/09/13	1.5		%	35
			Acid Extractable Silver (Ag)	2021/09/13	55 (2)		%	35
			Acid Extractable Strontium (Sr)	2021/09/13	0.40		%	35
			Acid Extractable Thallium (Tl)	2021/09/13	7.7		%	35
			Acid Extractable Tin (Sn)	2021/09/13	32		%	35
			Acid Extractable Uranium (U)	2021/09/13	2.7		%	35
			Acid Extractable Vanadium (V)	2021/09/13	2.7		%	35
			Acid Extractable Zinc (Zn)	2021/09/13	18		%	35
7569201	BAN	Matrix Spike [QOP783-01]	Acid Extractable Antimony (Sb)	2021/09/13		95	%	75 - 125
			Acid Extractable Arsenic (As)	2021/09/13		NC	%	75 - 125
			Acid Extractable Barium (Ba)	2021/09/13		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2021/09/13		103	%	75 - 125
			Acid Extractable Bismuth (Bi)	2021/09/13		101	%	75 - 125
			Acid Extractable Boron (B)	2021/09/13		100	%	75 - 125
			Acid Extractable Cadmium (Cd)	2021/09/13		95	%	75 - 125
			Acid Extractable Chromium (Cr)	2021/09/13		99	%	75 - 125
			Acid Extractable Cobalt (Co)	2021/09/13		99	%	75 - 125
			Acid Extractable Copper (Cu)	2021/09/13		93	%	75 - 125
			Acid Extractable Lead (Pb)	2021/09/13		94	%	75 - 125
			Acid Extractable Lithium (Li)	2021/09/13		108	%	75 - 125
			Acid Extractable Manganese (Mn)	2021/09/13		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2021/09/13		91	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2021/09/13		103	%	75 - 125
			Acid Extractable Nickel (Ni)	2021/09/13		98	%	75 - 125
			Acid Extractable Rubidium (Rb)	2021/09/13		98	%	75 - 125
			Acid Extractable Selenium (Se)	2021/09/13		95	%	75 - 125
			Acid Extractable Silver (Ag)	2021/09/13		102	%	75 - 125
			Acid Extractable Strontium (Sr)	2021/09/13		102	%	75 - 125
			Acid Extractable Thallium (Tl)	2021/09/13		101	%	75 - 125
			Acid Extractable Tin (Sn)	2021/09/13		101	%	75 - 125



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7569201	BAN	Spiked Blank	Acid Extractable Uranium (U)	2021/09/13		102	%	75 - 125
			Acid Extractable Vanadium (V)	2021/09/13		101	%	75 - 125
			Acid Extractable Zinc (Zn)	2021/09/13		89	%	75 - 125
			Acid Extractable Antimony (Sb)	2021/09/10		103	%	75 - 125
			Acid Extractable Arsenic (As)	2021/09/10		97	%	75 - 125
			Acid Extractable Barium (Ba)	2021/09/10		101	%	75 - 125
			Acid Extractable Beryllium (Be)	2021/09/10		103	%	75 - 125
			Acid Extractable Bismuth (Bi)	2021/09/10		102	%	75 - 125
			Acid Extractable Boron (B)	2021/09/10		104	%	75 - 125
			Acid Extractable Cadmium (Cd)	2021/09/10		96	%	75 - 125
			Acid Extractable Chromium (Cr)	2021/09/10		101	%	75 - 125
			Acid Extractable Cobalt (Co)	2021/09/10		100	%	75 - 125
			Acid Extractable Copper (Cu)	2021/09/10		98	%	75 - 125
			Acid Extractable Lead (Pb)	2021/09/10		101	%	75 - 125
			Acid Extractable Lithium (Li)	2021/09/10		109	%	75 - 125
			Acid Extractable Manganese (Mn)	2021/09/10		99	%	75 - 125
			Acid Extractable Mercury (Hg)	2021/09/10		98	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2021/09/10		100	%	75 - 125
			Acid Extractable Nickel (Ni)	2021/09/10		99	%	75 - 125
			Acid Extractable Rubidium (Rb)	2021/09/10		100	%	75 - 125
			Acid Extractable Selenium (Se)	2021/09/10		95	%	75 - 125
			Acid Extractable Silver (Ag)	2021/09/10		98	%	75 - 125
			Acid Extractable Strontium (Sr)	2021/09/10		100	%	75 - 125
			Acid Extractable Thallium (Tl)	2021/09/10		102	%	75 - 125
			Acid Extractable Tin (Sn)	2021/09/10		100	%	75 - 125
			Acid Extractable Uranium (U)	2021/09/10		100	%	75 - 125
			Acid Extractable Vanadium (V)	2021/09/10		101	%	75 - 125
			Acid Extractable Zinc (Zn)	2021/09/10		94	%	75 - 125
7569201	BAN	Method Blank	Acid Extractable Aluminum (Al)	2021/09/10	<10		mg/kg	
			Acid Extractable Antimony (Sb)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Arsenic (As)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Barium (Ba)	2021/09/10	<5.0		mg/kg	
			Acid Extractable Beryllium (Be)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Bismuth (Bi)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Boron (B)	2021/09/10	<50		mg/kg	
			Acid Extractable Cadmium (Cd)	2021/09/10	<0.30		mg/kg	
			Acid Extractable Chromium (Cr)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Cobalt (Co)	2021/09/10	<1.0		mg/kg	
			Acid Extractable Copper (Cu)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Iron (Fe)	2021/09/10	<50		mg/kg	
			Acid Extractable Lead (Pb)	2021/09/10	<0.50		mg/kg	
			Acid Extractable Lithium (Li)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Manganese (Mn)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Mercury (Hg)	2021/09/10	<0.10		mg/kg	
			Acid Extractable Molybdenum (Mo)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Nickel (Ni)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Rubidium (Rb)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Selenium (Se)	2021/09/10	<0.50		mg/kg	
			Acid Extractable Silver (Ag)	2021/09/10	<0.50		mg/kg	
			Acid Extractable Strontium (Sr)	2021/09/10	<5.0		mg/kg	
			Acid Extractable Thallium (Tl)	2021/09/10	<0.10		mg/kg	
			Acid Extractable Tin (Sn)	2021/09/10	<1.0		mg/kg	



BV Labs Job #: C1P5294
Report Date: 2021/10/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: 735-000106
Sampler Initials: SJ

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7569201	BAN	RPD [QOP886-01]	Acid Extractable Uranium (U)	2021/09/10	<0.10		mg/kg	
			Acid Extractable Vanadium (V)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Zinc (Zn)	2021/09/10	<5.0		mg/kg	
			Acid Extractable Aluminum (Al)	2021/09/11	1.3		%	35
			Acid Extractable Antimony (Sb)	2021/09/11	NC		%	35
			Acid Extractable Arsenic (As)	2021/09/11	6.6		%	35
			Acid Extractable Barium (Ba)	2021/09/11	0.64		%	35
			Acid Extractable Beryllium (Be)	2021/09/11	NC		%	35
			Acid Extractable Bismuth (Bi)	2021/09/11	NC		%	35
			Acid Extractable Boron (B)	2021/09/11	NC		%	35
			Acid Extractable Cadmium (Cd)	2021/09/11	NC		%	35
			Acid Extractable Chromium (Cr)	2021/09/11	2.1		%	35
			Acid Extractable Cobalt (Co)	2021/09/11	NC		%	35
			Acid Extractable Copper (Cu)	2021/09/11	0.34		%	35
			Acid Extractable Iron (Fe)	2021/09/11	4.6		%	35
			Acid Extractable Lead (Pb)	2021/09/11	2.4		%	35
			Acid Extractable Lithium (Li)	2021/09/11	4.6		%	35
			Acid Extractable Manganese (Mn)	2021/09/11	5.1		%	35
			Acid Extractable Mercury (Hg)	2021/09/11	10		%	35
			Acid Extractable Molybdenum (Mo)	2021/09/11	NC		%	35
			Acid Extractable Nickel (Ni)	2021/09/11	4.0		%	35
			Acid Extractable Rubidium (Rb)	2021/09/11	2.5		%	35
			Acid Extractable Selenium (Se)	2021/09/11	4.0		%	35
			Acid Extractable Silver (Ag)	2021/09/11	NC		%	35
			Acid Extractable Strontium (Sr)	2021/09/11	11		%	35
			Acid Extractable Thallium (Tl)	2021/09/11	NC		%	35
			Acid Extractable Tin (Sn)	2021/09/11	NC		%	35
			Acid Extractable Uranium (U)	2021/09/11	2.4		%	35
			Acid Extractable Vanadium (V)	2021/09/11	2.2		%	35
			Acid Extractable Zinc (Zn)	2021/09/11	7.6		%	35
7621631	MLB	Matrix Spike	Aluminum (Al)	2021/10/08		NC	%	75 - 125
			Antimony (Sb)	2021/10/08		107	%	75 - 125
			Arsenic (As)	2021/10/08		103	%	75 - 125
			Barium (Ba)	2021/10/08		NC	%	75 - 125
			Beryllium (Be)	2021/10/08		95	%	75 - 125
			Boron (B)	2021/10/08		102	%	75 - 125
			Cadmium (Cd)	2021/10/08		NC	%	75 - 125
			Chromium (Cr)	2021/10/08		93	%	75 - 125
			Cobalt (Co)	2021/10/08		104	%	75 - 125
			Copper (Cu)	2021/10/08		NC	%	75 - 125
			Iron (Fe)	2021/10/08		NC	%	75 - 125
			Lead (Pb)	2021/10/08		102	%	75 - 125
			Lithium (Li)	2021/10/08		102	%	75 - 125
			Manganese (Mn)	2021/10/08		NC	%	75 - 125
			Molybdenum (Mo)	2021/10/08		102	%	75 - 125
			Nickel (Ni)	2021/10/08		104	%	75 - 125
			Selenium (Se)	2021/10/08		100	%	75 - 125
			Silver (Ag)	2021/10/08		104	%	75 - 125
			Strontium (Sr)	2021/10/08		NC	%	75 - 125
			Thallium (Tl)	2021/10/08		105	%	75 - 125
			Tin (Sn)	2021/10/08		16 (3)	%	75 - 125
			Uranium (U)	2021/10/08		75	%	75 - 125



BV Labs Job #: C1P5294
Report Date: 2021/10/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: 735-000106
Sampler Initials: SJ

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7621631	MLB	Spiked Blank	Vanadium (V)	2021/10/08		100	%	75 - 125
			Zinc (Zn)	2021/10/08		NC	%	75 - 125
			Antimony (Sb)	2021/10/08		105	%	75 - 125
			Arsenic (As)	2021/10/08		99	%	75 - 125
			Barium (Ba)	2021/10/08		100	%	75 - 125
			Beryllium (Be)	2021/10/08		93	%	75 - 125
			Boron (B)	2021/10/08		96	%	75 - 125
			Cadmium (Cd)	2021/10/08		101	%	75 - 125
			Chromium (Cr)	2021/10/08		96	%	75 - 125
			Cobalt (Co)	2021/10/08		100	%	75 - 125
			Copper (Cu)	2021/10/08		99	%	75 - 125
			Iron (Fe)	2021/10/08		92	%	75 - 125
			Lead (Pb)	2021/10/08		99	%	75 - 125
			Lithium (Li)	2021/10/08		93	%	75 - 125
			Manganese (Mn)	2021/10/08		100	%	75 - 125
			Molybdenum (Mo)	2021/10/08		98	%	75 - 125
			Nickel (Ni)	2021/10/08		101	%	75 - 125
			Selenium (Se)	2021/10/08		97	%	75 - 125
			Silver (Ag)	2021/10/08		96	%	75 - 125
			Strontium (Sr)	2021/10/08		100	%	75 - 125
			Thallium (Tl)	2021/10/08		100	%	75 - 125
			Tin (Sn)	2021/10/08		102	%	75 - 125
			Uranium (U)	2021/10/08		100	%	75 - 125
7621631	MLB	Method Blank	Vanadium (V)	2021/10/08		95	%	75 - 125
			Zinc (Zn)	2021/10/08		97	%	75 - 125
			Aluminum (Al)	2021/10/08	<2.5		mg/kg	
			Antimony (Sb)	2021/10/08	<0.50		mg/kg	
			Arsenic (As)	2021/10/08	<0.50		mg/kg	
			Barium (Ba)	2021/10/08	<1.5		mg/kg	
			Beryllium (Be)	2021/10/08	<0.50		mg/kg	
			Boron (B)	2021/10/08	<1.5		mg/kg	
			Cadmium (Cd)	2021/10/08	<0.050		mg/kg	
			Chromium (Cr)	2021/10/08	<0.50		mg/kg	
			Cobalt (Co)	2021/10/08	<0.20		mg/kg	
			Copper (Cu)	2021/10/08	<0.50		mg/kg	
			Iron (Fe)	2021/10/08	<15		mg/kg	
			Lead (Pb)	2021/10/08	<0.18		mg/kg	
			Lithium (Li)	2021/10/08	<0.50		mg/kg	
			Manganese (Mn)	2021/10/08	<0.50		mg/kg	
			Molybdenum (Mo)	2021/10/08	<0.50		mg/kg	
			Nickel (Ni)	2021/10/08	<0.50		mg/kg	
			Selenium (Se)	2021/10/08	<0.50		mg/kg	
			Silver (Ag)	2021/10/08	<0.12		mg/kg	
			Strontium (Sr)	2021/10/08	<1.5		mg/kg	
			Thallium (Tl)	2021/10/08	<0.020		mg/kg	
			Tin (Sn)	2021/10/08	<0.50		mg/kg	
			Uranium (U)	2021/10/08	<0.020		mg/kg	
7621631	MLB	RPD	Vanadium (V)	2021/10/08	<0.50		mg/kg	
			Zinc (Zn)	2021/10/08	<1.5		mg/kg	
			Aluminum (Al)	2021/10/08	61 (4)		%	35
			Antimony (Sb)	2021/10/08	NC		%	35
			Arsenic (As)	2021/10/08	NC		%	35



BV Labs Job #: C1P5294
Report Date: 2021/10/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: 735-000106
Sampler Initials: SJ

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Barium (Ba)	2021/10/08	44 (4)		%	35
			Beryllium (Be)	2021/10/08	NC		%	35
			Boron (B)	2021/10/08	NC		%	35
			Cadmium (Cd)	2021/10/08	26		%	35
			Chromium (Cr)	2021/10/08	24		%	35
			Cobalt (Co)	2021/10/08	NC		%	35
			Copper (Cu)	2021/10/08	32		%	35
			Iron (Fe)	2021/10/08	NC		%	35
			Lead (Pb)	2021/10/08	NC		%	35
			Lithium (Li)	2021/10/08	NC		%	35
			Manganese (Mn)	2021/10/08	37 (4)		%	35
			Molybdenum (Mo)	2021/10/08	NC		%	35
			Nickel (Ni)	2021/10/08	NC		%	35
			Selenium (Se)	2021/10/08	NC		%	35
			Silver (Ag)	2021/10/08	NC		%	35
			Strontium (Sr)	2021/10/08	40 (4)		%	35
			Thallium (Tl)	2021/10/08	NC		%	35
			Tin (Sn)	2021/10/08	NC		%	35
			Uranium (U)	2021/10/08	NC		%	35
			Vanadium (V)	2021/10/08	NC		%	35
			Zinc (Zn)	2021/10/08	7.6		%	35
7630727	NHU	Matrix Spike	Mercury (Hg)	2021/10/13		103	%	75 - 125
7630727	NHU	QC Standard	Mercury (Hg)	2021/10/13		79 (5)	%	80 - 120
7630727	NHU	Spiked Blank	Mercury (Hg)	2021/10/13		109	%	80 - 120
7630727	NHU	Method Blank	Mercury (Hg)	2021/10/13	<0.010		mg/kg	
7630727	NHU	RPD	Mercury (Hg)	2021/10/13	NC		%	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference $\leq 2 \times \text{RDL}$).

(1) Low level lab contamination.

(2) Poor RPD due to sample inhomogeneity. Verified by repeat digestion and analysis.

(3) Matrix Spike exceeds acceptance limits, probable matrix interference.

(4) Poor RPD due to sample inhomogeneity. Insufficient sample for repeat analysis.

(5) Recovery is within control chart criteria.



BUREAU
VERITAS

BV Labs Job #: C1P5294
Report Date: 2021/10/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: 735-000106
Sampler Initials: SJ

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Colleen Acker, B.Sc, Scientific Service Specialist

Eric Dearman, Scientific Specialist

Mike MacGillivray, Scientific Specialist (Inorganics)



Automated Statchk

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465 George Street, Unit G, Sydney, NS B1P 1K5 Tel: 902-567-1255 Fax: 902-539-6504 Toll Free: 1-888-535-7770

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CHAIN OF CUSTODY RECORD

COC #:

Page 1 OF 4

Invoice Information				Report Information (if differs from invoice)				Project Information (where applicable)				Turnaround Time (TAT) Required												
Company Name: GHD Limited				Company Name: GHD Limited				Quotation #: C12841				☒ Regular TAT (5 business days) Most analyses												
Contact Name: Accounts Payable - 762				Contact Name: Glen Merkley				Purchase Order#: 735-000106				PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS												
Address: 120 Western Parkway Bedford, NS PC: B4B 0V2				Address: 120 Western Parkway Bedford, NS PC: B4B 0V2				Project #: 11222385				IF RUSH please specify date (Surcharges will be applied)												
Phone: (902)468-1248 / Fax: (902)468-2207				Phone: (902) 802-4790				Site Location: Goldboro				DATE REQUIRED:												
Email: invoicing-canada@ghd.com				Email: glen.merkley@ghd.com				Site Province: Nova Scotia																
Report Copies:				Report Copies:				Site #:																
Report Copies:				Report Copies:				Sampled By: SI / ER																
Laboratory Use Only				Analysis Requested																				
CUSTODY SEAL		COOLER TEMPERATURES		COOLER TEMPERATURES		Regulatory Requirements (Specify)																		
Present	Intact					COMMENTS																		
		9, 8, 8																						
COOLING MEDIA PRESENT Y / N																								
SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS																								
SAMPLE IDENTIFICATION		DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED & PRESERVED	LAB FILTRATION REQUIRED	RCAP-MS (Total Metals) Well / Surface water	RCAP-MS (Dissolved Metals) Ground waters	Total Digest (Default Method) for well water & surface water	Dissolved for ground water	Mercury (CIRCLE) TOTAL / DISSOLVED	Metals (Water)	Metals (Soil)	Default Acid Extractable (Available) Digest	Hot Water Soluble Boron (required for CCME Agriculture / Landfill)	Atlantic RCAP-MS Total Metals in Water	Mercury - Total (CVAA, L)	Metals Solids Acid Extr. - ICPMS	Mercury	Metals in Tissue	Mercury in tissue	HOLD - DO NOT ANALYZE	
1 /	RA-SW-1	9/1/2021	8:55am	water	1													X	X					
2 /	RA-SW-2	9/1/2021	9:20am	water	1													X	X					
3 /	RA-SW-3	9/1/2021	10:40am	water	1													X	X					
4 /	RA-SW-4	9/1/2021	10:10am	water	1													X	X					
5 /	RA-SW-5	9/1/2021	10:21am	water	1													X	X					
6 /	RA-SW-6	8/31/2021	7:25pm	water	1													X	X					
7 /	RA-SW-7	9/1/2021	12:12m	water	1													X	X					
8 /	RA-SW-8	9/1/2021	1:07pm	water	1													X	X					
9 /	RA-SW-9	9/1/2021	2:50pm	water	1													X	X					
10 /	RA-SW-10	9/1/2021	3:33pm	water	1													X	X					
RELINQUISHED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH:MM)	BV LABS JOB #																
Emma Rivard		2021/09/02	4:30pm	J. KENNEDY				CIPS294																

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485 George Street, Unit G, Sydney, NS B1P 1K5 Tel: 902-567-1255 Fax: 902-539-8504 Toll Free: 1-888-535-7770

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CHAIN OF CUSTODY RECORD

COC #:

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Invoice Information				Report Information (if differs from invoice)				Project Information (where applicable)				Turnaround Time (TAT) Required																				
Company Name: GHD Limited				Company Name: GHD Limited				Quotation #: C12841				☒ Regular TAT (5 business days) Most analyses																				
Contact Name: Accounts Payable - 762				Contact Name: Glen Merkley				Purchase Order#: 735-000106				PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS																				
Address: 120 Western Parkway Bedford, NS PC: B4B 0V2				Address: 120 Western Parkway Bedford, NS PC: B4B 0V2				Project #: 11222385				IF RUSH please specify date (Surcharges will be applied)																				
Phone: (902)468-1248 / Fax: (902)468-2207				Phone: (902) 802-4790				Site Location: Goldboro				DATE REQUIRED:																				
Email: invoicing-canada@ghd.com				Email: glen.merkley@ghd.com				Site Province: Nova Scotia																								
Report Copies:				Report Copies:				Site #:																								
Report Copies:				Report Copies:				Sampled By: SJ / ER																								
Laboratory Use Only				Analysis Requested																												
CUSTODY SEAL		COOLER TEMPERATURES		COOLER TEMPERATURES		Regulatory Requirements (Specify)																										
Present	Intact																															
		9, 8, 8																														
COOLING MEDIA PRESENT Y / N																																
SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS																																
SAMPLE IDENTIFICATION		DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED & PRESERVED	LAB FILTRATION REQUIRED	RCAP-MS (Total Metals) Well / Surface water	RCAP-MS (Dissolved Metals) Ground waters	Total Digest (Default Method) for well water & surface water	Dissolved for ground water	Mercury (CIRCLE) TOTAL / DISSOLVED	Metals & Mercury	Default Acid Extractable (Available) Digest	Hot Water Soluble Borens (required for CCME Agriculture / Landfill)	Atlantic RCAP-MS Total Metals in Water	Mercury - Total (CVAA, L)	Metals Solids Acid Extr. ICNMS	Mercury	Metals in Tissue	Mercury in Tissue											COMMENTS
1 /	RA-SW-11	9/2/2021	10:02am	water	1												X	X														
2 /	RA-SW-12	9/2/2021	9:03am	water	1												X	X														
3 /	RA-SED-1	9/1/2021	8:55am	soil	1														X	X												
4 /	RA-SED-2	9/1/2021	9:17am	soil	1														X	X												
5 /	RA-SED-3	9/1/2021	10:45am	soil	1														X	X												
6 /	RA-SED-4	9/1/2021	10:13am	soil	1														X	X												
7 /	RA-SED-5	9/1/2021	10:28am	soil	1														X	X												
8 /	RA-SED-6	8/31/2021	5:15pm	soil	1														X	X												
9 /	RA-SED-7	9/1/2021	12:10pm	soil	1														X	X												
10 /	RA-SED-8	9/1/2021	1:13pm	soil	1														X	X												
RELINQUISHED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH:MM)	BV LABS JOB #																								
Emma Rivard		2021/09/02	4:30pm	J. JENNY BERRY				C1PS294																								

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CHAIN OF CUSTODY RECORD

COC #:

Page 314

Invoice Information				Report Information (if differs from invoice)				Project Information (where applicable)				Turnaround Time (TAT) Required			
Company Name: GHD Limited				Company Name: GHD Limited				Quotation #: C12841				☒ Regular TAT (5 business days) Most analyses PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS IF RUSH please specify date (Surcharges will be applied) DATE REQUIRED:			
Contact Name: Accounts Payable - 762				Contact Name: Glen Merkley				Purchase Order#: 735-000106							
Address: 120 Western Parkway Bedford, NS PC: B4B 0V2				Address: 120 Western Parkway Bedford, NS PC: B4B 0V2				Project #: 11222385							
Phone: (902)468-1248 / Fax: (902)468-2207				Phone: (902) 802-4790				Site Location: Goldboro							
Email: invoicing-canada@ghd.com				Email: glen.merkley@ghd.com				Site Province: Nova Scotia							
Report Copies:				Report Copies:				Site #:							
Report Copies:				Report Copies:				Sampled By: SJ / ER							

Laboratory Use Only				Analysis Requested																				
CUSTODY SEAL		COOLER TEMPERATURES		COOLER TEMPERATURES		# OF CONTAINERS SUBMITTED	FIELD FILTERED & PRESERVED	LAB FILTRATION REQUIRED	RCAP-MS [Total Metals] Well / Surface water	RCAP-MS [Dissolved Metals] Ground waters	Total Digest (Default Method) for well water & surface water	Dissolved for ground water	Mercury (CIRCLE) TOTAL / DISSOLVED	Metals & Mercury Default Acid Extractable (Available) Digest	Hot Water Soluble Boron (required for CCME Agriculture / Landfill)	Atlantic RCAP-MS Total Metals in Water	Mercury - Total (CVAA/L)	Metals Solids Acid Extr. (CPMS)	Mercury	Metals in Tissue	Mercury in tissue	HOLD- DO NOT ANALYZE	Regulatory Requirements (Specify)	COMMENTS
Present	Intact																							
		9.8.8																						
COOLING MEDIA PRESENT Y / N																								
SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS																								
SAMPLE IDENTIFICATION		DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX																				
1	RA-SED-9	9/1/2021	2:45pm	soil	1													X	X					
2	RA-SW-10	9/1/2021	3:30pm	water	1													X	X					
3	RA-SED-11	9/2/2021	10:00am	soil	1													X	X					
4	RA-SW-12	9/2/2021	8:58am	water	1													X	X					
5	RA-TIS-1	8/31/2021	5:30pm																	X	X		limited sample	
6	RA-TIS-6	8/31/2021	7:20pm																	X	X		"	
7	RA-TIS-7	9/1/2021	12:05pm																	X	X		"	
8	RA-TIS-8	9/1/2021	1:05pm																	X	X		"	
9	RA-TIS-9	9/1/2021	3:05pm																	X	X		"	
10	RA-SW-DUP	9/2/2021		water	1													X	X					

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	BV LABS JOB #
Emma Rival	2021/09/02	4:30pm	J. JENNIFER			CIPS254

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to BV Labs standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms which are available for viewing at www.bvlabs.com

White: Maxxam

Pink: Client



200 Bluewater Road, Suite 105, Bedford, Nova Scotia B4B 1G9 Tel: 902-420-0203 Fax: 902-420-8612 Toll Free: 1-800-565-7227
49-55 Elizabeth Avenue, St John's, NL A1A 1W9 Tel: 709-754-0203 Fax: 709-754-8612 Toll Free: 1-888-492-7227
465 George Street, Unit G, Sydney, NS B1P 1K5 Tel: 902-567-1255 Fax: 902-539-6504 Toll Free: 1-888-535-7770

ATL FCD 00149 / 25

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CHAIN OF CUSTODY RECORD

COC #:

Page 1 OF 1

Invoice Information				Report Information (if differs from invoice)				Project Information (where applicable)				Turnaround Time (TAT) Required															
Company Name: GHD Limited				Company Name: GHD Limited				Quotation #: C12841				☒ Regular TAT (5 business days) Most analyses															
Contact Name: Accounts Payable - 762				Contact Name: Glen Merkley				Purchase Order#: 735-000106				PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS															
Address: 120 Western Parkway Bedford, NS PC: B4B 0V2				Address: 120 Western Parkway Bedford, NS PC: B4B 0V2				Project #: 11222385				IF RUSH please specify date (Surcharges will be applied)															
Phone: (902)468-1248 / Fax: (902)468-2207				Phone: (902) 802-4790				Site Location: Goldboro				DATE REQUIRED:															
Email: invoicing-canada@ghd.com				Email: glen.merkley@ghd.com				Site Province: Nova Scotia																			
Report Copies:				Report Copies:				Site #:																			
Report Copies:				Report Copies:				Sampled By: SI / ER																			
Laboratory Use Only				Analysis Requested																							
CUSTODY SEAL		COOLER TEMPERATURES		COOLER TEMPERATURES		# OF CONTAINERS SUBMITTED	FIELD FILTERED & PRESERVED	LAB FILTRATION REQUIRED	RCAP-MS (Total Metals) Well / Surface water	RCAP-MS (Dissolved Metals) Ground waters	Metals (Water)		Metals (Soil)		Total Digest (Default Method) for well water & surface water	Dissolved for ground water	Mercury (CIRCLE) TOTAL / DISSOLVED	Metals & Mercury Default Acid Extractable (Available) Digest	Hot Water Soluble Boron (required for CCME Agriculture / Landfill)	Atlantic RCAP-MS Total Metals in Water	Mercury - Total (CVAA/L)	Metals Solids Acid Extr. ICPMS	Mercury	Metals in Tissue	Mercury in tissue	HOLD - DO NOT ANALYZE	Regulatory Requirements (Specify)
Present	Intact																										
COOLING MEDIA PRESENT Y / N																											
SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS																											
SAMPLE IDENTIFICATION		DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX																							COMMENTS
1	RA-SED-DUP	9/2/2021		soil	1																						
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
RELINQUISHED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH:MM)	BV LABS JOB #																			
Emma Rivard		2021/09/02	4:30pm	J. JENNY BERRY				CIPS254																			
B. ON																											

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to BV Labs standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms which are available for viewing at www.bvlabs.com

White: Maxxam

Pink: Client

2021 SEP 2 16:32

Appendix E

Industrial Approval Monitoring Data

Table 6-Surface Water Flow Measurements**Station # 6 Settling Pond Outflow**

Date	Flow (m³/s)
18-Jan-21	0.00080
09-Feb-21	0.00082
08-Mar-21	0.00014
05-Apr-21	0.00462
07-May-21	0.00082
31-May-21	0.00003
28-Jun-21	0.00003
27-Jul-21	0.00003
23-Aug-21	0.00003
20-Sep-21	0.00175
04-Oct-21	0.00041
01-Nov-21	0.00227
29-Nov-21	0.00145
22-Dec-21	0.00034

Table 7-Surface Water Elevations

#2 Beaver Pond Inflow			#3 Beaver Pond Outflow			#4 Goldbrook Lake South			#5 Boston Richardson Shaft			#6 Settling Pond Out Flow			#7 Gold Brook Creek			#9 Drainage from Ore Stockpile		
Reference Elevation (m AMSL) = 64.07			Reference Elevation (m AMSL) = 63.93			Reference Elevation (m AMSL) = 52.24			Reference Elevation (m AMSL) = 60.76			Reference Elevation (m AMSL) = 49.22			Reference Elevation (m AMSL) = 46.55			Reference Elevation (m AMSL) = 59.83		
Date	Water Level Height (m)	Surface Water Elevation (m AMSL)	Date	Water Level Height (m)	Surface Water Elevation (m AMSL)	Date	Water Level Height (m)	Surface Water Elevation (m AMSL)	Date	Depth to Water (m bitor)	Surface Water Elevation (m AMSL)	Date	Water Level Height (m)	Surface Water Elevation (m AMSL)	Date	Water Level Height (m)	Surface Water Elevation (m AMSL)	Date	Water Level Height (m)	Surface Water Elevation (m AMSL)
18-Jan-21	*frozen	-	18-Jan-21	*frozen	-	18-Jan-21	0.4826	52.72	18-Jan-21	2.3	58.46	18-Jan-21	1.1938	50.41	18-Jan-21	0.2667	46.82	18-Jan-21	*frozen	-
09-Feb-21	*frozen	-	09-Feb-21	*frozen	-	09-Feb-21	0.4953	52.74	09-Feb-21	2.07	58.69	09-Feb-21	1.1938	50.41	09-Feb-21	0.3429	46.89	09-Feb-21	*frozen	-
08-Mar-21	*frozen	-	08-Mar-21	*frozen	-	08-Mar-21	0.381	52.62	08-Mar-21	2.41	58.35	08-Mar-21	*frozen	-	08-Mar-21	0.381	46.93	08-Mar-21	*frozen	-
05-Apr-21	1.232	65.30	05-Apr-21	0.98	64.91	05-Apr-21	0.851	53.09	05-Apr-21	1.67	59.09	05-Apr-21	1.225	50.45	05-Apr-21	0.286	46.84	05-Apr-21	0.15	59.98
07-May-21	1	65.07	07-May-21	0.76	64.692	07-May-21	0.42	52.66	07-May-21	1.77	58.99	07-May-21	1.168	50.39	07-May-21	0.254	46.80	07-May-21	0.1	59.93
31-May-21	0.99	65.060	31-May-21	0.70	64.63	31-May-21	0.2159	52.46	31-May-21	2.95	57.81	31-May-21	0.9652	50.19	31-May-21	0.2413	46.79	31-May-21	0.15	59.98
28-Jun-21	0.75	64.82	28-Jun-21	0.57	64.50	28-Jun-21	0.16	52.40	28-Jun-21	3.12	57.64	28-Jun-21	0.724	49.94	28-Jun-21	0.232	46.78	28-Jun-21	0.1	59.93
27-Jul-21	0.91	64.98	27-Jul-21	0.58	64.51	27-Jul-21	0.1778	52.42	27-Jul-21	2.96	57.8	27-Jul-21	0.8954	50.12	27-Jul-21	0.2032	46.75	27-Jul-21	0.30	60.13
23-Aug-21	0.99	65.06	23-Aug-21	0.66	64.59	23-Aug-21	0.2159	52.46	23-Aug-21	2.62	58.14	23-Aug-21	1.143	50.36	23-Aug-21	0.1905	46.74	23-Aug-21	0.10	59.93
20-Sep-21	1.03	65.10	20-Sep-21	0.79	64.72	20-Sep-21	0.348	52.59	20-Sep-21	2.91	57.85	20-Sep-21	1.194	50.41	20-Sep-21	0.2667	46.82	20-Sep-21	0.4	60.23
04-Oct-21	1.05	65.12	04-Oct-21	0.66	64.59	04-Oct-21	0.3556	52.60	04-Oct-21	2.27	58.49	04-Oct-21	1.1557	50.38	04-Oct-21	0.254	46.80	04-Oct-21	0.15	59.98
01-Nov-21	1.23	65.30	01-Nov-21	0.90	64.83	01-Nov-21	0.305	52.55	01-Nov-21	2.66	58.1	01-Nov-21	1.245	50.47	01-Nov-21	0.279	46.83	01-Nov-21	0.40	60.23
29-Nov-21	1.09	65.16	29-Nov-21	0.76	64.69	29-Nov-21	0.381	52.62	29-Nov-21	1.94	58.83	29-Nov-21	1.168	50.39	29-Nov-21	0.305	46.86	29-Nov-21	0.41	60.24
22-Dec-21	1.08	65.15	22-Dec-21	0.75	64.68	22-Dec-21	0.318	52.56	22-Dec-21	2.08	58.68	22-Dec-21	1.116	50.34	22-Dec-21	0.279	46.83	22-Dec-21	*frozen	-

Table 3-Total Suspended Solids and pH Monitoring

	Beaver Pond Inflow	Beaver Pond Outflow	Goldbrook Lake	Boston Richardson Shaft	Settling Pond	Gold Brook Creek	Drainage from Ore Stockpile
<u>Total Suspended Solids (mg/L)</u>							
31-Aug-18	10	20	40	2.6	14	8.4	--
7-Sep-18	14000 ⁽¹⁾	22	2.4	6.4	3.4	<2.0	--
Background Criteria	10.0	21.0	21.2	4.5	8.7	4.7	--
	15.0	26.0	26.2	9.5	13.7	9.7	--
January 2021					3		
February 2021	4.0	<1.0	2.0/<1.6 ^(D)	2.4	2.4	1.2	frozen
March 2021					1.2		
April 2021					<2.0		
May 2021					2.8		
June 2021	36	5.20	2.6/2.2	1.40	11	110	34
July 2021					6.5		
August 2021					6.4		
September 2021	2.80	2.40	4.4/5.2 ^(D)	5.80	3.9	4.80	9.60
October 2021					5.6		
November 2021					3.2		
November 2021	<1.0	<1.0/<1.0 ^(D)	<1.0	2.8	1.4	<1.0	4.8
December 2021					2.4		

pH (s.u.)

Maximum 5 to 9 (Grab Sample)

January 2021					6.2		
February 2021	4.9	4.6	4.75/4.89 ^(D)	6.6	5.44	4.8	frozen
March 2021					5.64		
April 2021					6.81		
May 2021					6.50		
June 2021	5.59	5.32	5.29	6.82	6.80	6.47	6.07
July 2021					6.81		
August 2021					6.72		
September 2021	4.44	4.43	5.22	7.12	6.65	5.67	6.28
November 2021					6.60		
November 2021	4.6	4.43/4.51 ^(D)	4.6	6.9	5.31	4.7	6.3
December 2021					5.95		

Notes:

 =Compliance Location
⁽¹⁾ = anomalous value, not included in background calculation^(D) = duplicate sample

Red Text=Criteria Exceedance



REPORT FILTERS	Table 4-Settling Pond Outflow PHCs
Samples	Multiple
Analytes	Multiple
Criteria 1	NS Contam. Sites T3 SW FW - EQS

Report Group	Parameter Name	Criteria 1	Units	Sample ID Matrix Sampling Event Sampling Date												
				Settling Pond Outflow Surface Water Monthly 2021-01-18	Settling Pond Outflow Surface Water Q1 2021-02-09	Settling Pond Outflow Surface Water Monthly 2021-03-08	Settling Pond Outflow Surface Water Monthly 2021-04-05	Settling Pond Outflow Surface Water Monthly 2021-05-31	Settling Pond Outflow Surface Water Q2 2021-06-28	Settling Pond Outflow Surface Water Monthly 2021-07-26	Settling Pond Outflow Surface Water Monthly 2021-08-23	Settling Pond Outflow Surface Water Q3 2021-09-20	Settling Pond Outflow Surface Water Monthly 2021-10-04	Settling Pond Outflow Surface Water Monthly 2021-11-01	Settling Pond Outflow Surface Water Q4 2021-11-29	Settling Pond Outflow Surface Water Monthly 2021-12-22
				Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	
Atlantic RBCA Hydrocarbons	>C10-C16 Hydrocarbons	1.5	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Atlantic RBCA Hydrocarbons	>C16-C21 Hydrocarbons		mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		
Atlantic RBCA Hydrocarbons	>C21-<C32 Hydrocarbons		mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		
Atlantic RBCA Hydrocarbons	Modified TPH (Tier1)		mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020		
Atlantic RBCA Hydrocarbons	Reached Baseline at C32	2.1	mg/L	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	
Atlantic RBCA Hydrocarbons	Hydrocarbon Resemblance		mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		
Atlantic RBCA Hydrocarbons	Benzene		mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		
Atlantic RBCA Hydrocarbons	Toluene		0.77	mg/L	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.17	
Atlantic RBCA Hydrocarbons	Ethylbenzene	0.32	mg/L	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.17	
Atlantic RBCA Hydrocarbons	Total Xylenes	0.33	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Atlantic RBCA Hydrocarbons	C6 - C10 (less BTEX)		mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

LEGEND	
"N/A"	Not Applicable
Red with White Text	Exceeds Criteria

Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by BV Labs.



REPORT FILTERS	Table A.1-Beaver Pond Inflow
Samples	Multiple
Analytes	Multiple
Criteria 1	CCME Fresh Water Aquatic - LT
Criteria 2	95th Percentile

Sample ID	Beaver Pond-Surface Water Q1	Beaver Pond-Surface Water Q2	Beaver Pond-Surface Water Q3	Beaver Pond-Surface Water Q4
Matrix	2021-02-09	2020-06-28	2020-09-20	2020-11-29
Sampling Event				
Sampling Date				

Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Result	Result	Result	Result
Elements by ICP/MS	Total Aluminum (Al)	0.1 ¹	0.373	mg/L	0.346	1.58	0.858	0.393
Elements by ICP/MS	Total Antimony (Sb)			mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Elements by ICP/MS	Total Arsenic (As)	0.005	0.0139	mg/L	0.0053	0.0209	0.0140	0.0045
Elements by ICP/MS	Total Barium (Ba)			mg/L	0.0021	0.0082	0.0046	0.0027
Elements by ICP/MS	Total Beryllium (Be)			mg/L	<0.0010	<0.0010	<0.00010	<0.00010
Elements by ICP/MS	Total Bismuth (Bi)			mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Elements by ICP/MS	Total Boron (B)	1.5		mg/L	<0.050	<0.050	<0.050	<0.050
Elements by ICP/MS	Total Cadmium (Cd)	0.00004	0.000019	mg/L	0.000013	0.000013	0.000026	0.00002
Elements by ICP/MS	Total Calcium (Ca)			mg/L	0.44	0.87	1.08	0.68
Elements by ICP/MS	Total Chromium (Cr)			mg/L	<0.0010	0.0020	<0.0010	<0.0010
Elements by ICP/MS	Total Cobalt (Co)			mg/L	<0.00040	0.00060	0.00065	<0.00040
Elements by ICP/MS	Total Copper (Cu)	0.002 ²		mg/L	0.00066	0.00163	0.00082	<0.00050
Elements by ICP/MS	Total Iron (Fe)	0.3	0.863	mg/L	0.391	1.86	1.54	0.691
Elements by ICP/MS	Total Lead (Pb)	0.001 ³	0.00076	mg/L	0.00065	0.00123	0.00158	0.00073
Elements by ICP/MS	Total Magnesium (Mg)			mg/L	0.46	0.77	0.88	0.68
Elements by ICP/MS	Total Manganese (Mn)	0.19 ⁴		mg/L	0.042	0.0546	0.0940	0.0688
Elements by ICP/MS	Total Molybdenum (Mo)	0.073		mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Elements by ICP/MS	Total Nickel (Ni)	0.025 ⁵		mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Elements by ICP/MS	Total Phosphorus (P)			mg/L	<0.10	<0.10	<0.10	<0.10
Elements by ICP/MS	Total Potassium (K)			mg/L	0.4	1.04	0.35	0.5
Elements by ICP/MS	Total Selenium (Se)	0.001		mg/L	<0.00050	<0.00050	<0.00050	<0.00050
Elements by ICP/MS	Total Silver (Ag)	0.00025		mg/L	<0.00010	0.00017	<0.00010	<0.00010
Elements by ICP/MS	Total Sodium (Na)			mg/L	3.9	4.80	5.06	4.62
Elements by ICP/MS	Total Strontium (Sr)			mg/L	0.0047	0.0097	0.0110	0.0068
Elements by ICP/MS	Total Thallium (Tl)	0.0008		mg/L	<0.00010	<0.00010	<0.00010	<0.00010
Elements by ICP/MS	Total Tin (Sn)			mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Elements by ICP/MS	Total Titanium (Ti)			mg/L	0.0083	0.0613	0.0106	0.0089
Elements by ICP/MS	Total Uranium (U)	0.015		mg/L	<0.00010	<0.00010	<0.00010	<0.00010
Elements by ICP/MS	Total Vanadium (V)			mg/L	<0.0020	0.0022	<0.0020	<0.0020
Elements by ICP/MS	Total Zinc (Zn)	0.007 ⁶		mg/L	<0.0050	<0.0050	<0.0050	<0.0050
	Anion Sum			me/L	0.2	0.190	0.220	0.32
	Bicarb. Alkalinity (calc. as CaCO3)			mg/L	<1.0	<1.0	<1.0	<1.0
	Calculated TDS			mg/L	17	25	22	23
	Carb. Alkalinity (calc. as CaCO3)			mg/L	<1.0	<1.0	<1.0	<1.0
	Cation Sum			me/L	0.27	0.410	0.450	0.36
	Hardness (CaCO3)			mg/L	3	5.4	6.3	4.6
	Ion Balance (% Difference)			%	14.9	36.7	34.3	5.88
	Langelier Index (@ 20C)			N/A	NC	NC	NC	NC
	Langelier Index (@ 4C)			N/A	NC	NC	NC	NC
	Nitrate (N)	3		mg/L	<0.050	<0.050	<0.050	<0.050
	Saturation pH (@ 20C)			N/A	NC	NC	NC	NC
	Saturation pH (@ 4C)			N/A	NC	NC	NC	NC
	Total Alkalinity (Total as CaCO3)			mg/L	<5.0	<5.0	<5.0	<5.0
	Dissolved Chloride (Cl-)	120		mg/L	7.1	6.7	7.8	11
	Colour			TCU	150	200	430	180
	Nitrate + Nitrite (N)			mg/L	<0.050	<0.050	<0.050	<0.050
	Nitrite (N)	0.06		mg/L	<0.010	<0.010	<0.010	<0.010
	Orthophosphate (P)			mg/L				
	pH	6.5:9.0	5.44	pH	4.91	5.59	4.44	4.43
	Reactive Silica (SiO2)			mg/L	3.8	8.4	5.2	4.4
	Dissolved Sulphate (SO4)			mg/L	<2.0	<2.0	<2.0	<2.0
	Turbidity			NTU	2	25	1.3	1.2
	Conductivity			uS/cm	37	36	52	52
	Nitrogen (Ammonia Nitrogen)	48 ⁷		mg/L	<0.050	<0.050	<0.050	<0.050
	Total Organic Carbon (C)			mg/L	13	21	46	19
	Total Suspended Solids		10	mg/L	4	36	2.8	<1.0

LEGEND
"N/A" Not Applicable
Red with White Text Exceeds Applicable Criteria

Notes:

¹ - Aluminum - pH dependant, <6.5 = 0.005 mg/L, >6.5 = 0.1 mg/L

² - Copper - Hardness Dependand, <120 mg/L = 0.002 mg/L, 120 to 180 mg/L = 0.002 to 0.004 mg/L, >180 mg/L = 0.004 mg/L

³ - Lead - Hardness Dependand, <60 mg/L = 0.001 mg/L, 60-180 mg/L = 0.001 mg/L to 0.007 mg/L, >180 mg/L = 0.007 mg/L

⁴ - Manganese - Hardness and pH Dependand. Hardness <10mg/L and pH of 5.5 assumed

⁵ - Nickel - Hardness Dependand, <60 mg/L = 0.025 mg/L, 60-180 mg/L = 0.025 mg/L to 0.15 mg/L, >180 mg/L = 0.15 mg/L

⁶ - Zinc - Hardness, pH and DOC Dependand. Hardness of 50 mg/L, pH of 7.5 and DOC of 0.5 mg/L assumed.

⁷ - Nitrogen - pH and Temperature Dependand. pH of 6 and Temperature of 20 degrees Celsius assumed.

Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by BV Labs.



REPORT FILTERS	
Projects	Multiple
Jobs	Multiple
Samples	Multiple
Analytes	Multiple
Criteria 1	CCME Fresh Water Aquatic - LT
Criteria 2	95th Percentile

Sample ID
Matrix
Sampling Event
Sampling Date

Beaver Pond- Outflow Surface Water Q1 2021-02-09	Beaver Pond- Outflow Surface Water Q2 2021-06-28	Beaver Pond- Outflow Surface Water Q3 2021-09-20	Beaver Pond- Outflow Surface Water Q4 2021-11-29	Beaver Pond- Outflow Surface Water Q4-Duplicate 2021-11-29
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Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Result	Result	Result	Result	Result
Elements by ICP/MS	Total Aluminum (Al)	0.005 ¹	0.471	mg/L	0.341	1.15	0.896	0.414	0.428
Elements by ICP/MS	Total Antimony (Sb)			mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Elements by ICP/MS	Total Arsenic (As)	0.005	0.017	mg/L	0.0056	0.0276	0.0123	0.0077	0.008
Elements by ICP/MS	Total Barium (Ba)			mg/L	0.0021	0.0061	0.0048	0.003	0.0032
Elements by ICP/MS	Total Beryllium (Be)			mg/L	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010
Elements by ICP/MS	Total Bismuth (Bi)			mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Elements by ICP/MS	Total Boron (B)	1.5		mg/L	<0.050	<0.050	<0.050	<0.050	<0.050
Elements by ICP/MS	Total Cadmium (Cd)	0.00004	0.000018	mg/L	0.000016	0.000014	0.000030	0.00002	0.000021
Elements by ICP/MS	Total Calcium (Ca)			mg/L	0.43	0.66	0.94	0.69	0.76
Elements by ICP/MS	Total Chromium (Cr)			mg/L	<0.0010	0.0014	<0.0010	<0.0010	<0.0010
Elements by ICP/MS	Total Cobalt (Co)			mg/L	<0.00040	0.00045	0.00055	<0.00040	<0.00040
Elements by ICP/MS	Total Copper (Cu)	0.002 ²		mg/L	0.00057	0.00136	0.00131	<0.00050	<0.00050
Elements by ICP/MS	Total Iron (Fe)	0.3	1.11	mg/L	0.513	1.49	1.44	0.736	0.755
Elements by ICP/MS	Total Lead (Pb)	0.001 ³	0.001	mg/L	0.00066	0.00130	0.00154	0.0008	0.00075
Elements by ICP/MS	Total Magnesium (Mg)			mg/L	0.45	0.64	0.82	0.69	0.72
Elements by ICP/MS	Total Manganese (Mn)	0.19 ⁴		mg/L	0.0287	0.0405	0.0497	0.0459	0.0479
Elements by ICP/MS	Total Molybdenum (Mo)	0.073		mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Elements by ICP/MS	Total Nickel (Ni)	0.025 ⁵		mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Elements by ICP/MS	Total Phosphorus (P)			mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Elements by ICP/MS	Total Potassium (K)			mg/L	0.4	0.97	0.39	0.51	0.53
Elements by ICP/MS	Total Selenium (Se)	0.001		mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Elements by ICP/MS	Total Silver (Ag)	0.00025		mg/L	<0.00010	0.00012	<0.00010	<0.00010	<0.00010
Elements by ICP/MS	Total Sodium (Na)			mg/L	3.85	4.75	4.52	4.51	4.8
Elements by ICP/MS	Total Strontium (Sr)			mg/L	0.0049	0.0071	0.0106	0.0075	0.0079
Elements by ICP/MS	Total Thallium (Tl)	0.0008		mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Elements by ICP/MS	Total Tin (Sn)			mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Elements by ICP/MS	Total Titanium (Ti)			mg/L	0.0049	0.0361	0.0114	0.0065	0.0068
Elements by ICP/MS	Total Uranium (U)	0.015		mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Elements by ICP/MS	Total Vanadium (V)			mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Elements by ICP/MS	Total Zinc (Zn)	0.007 ⁶		mg/L	<0.0050	<0.0050	0.0061	<0.0050	<0.0050
Anion Sum					me/L	0.21	0.210	0.220	0.25
Bicarb. Alkalinity (calc. as CaCO3)					mg/L	<1.0	<1.0	<1.0	<1.0
Calculated TDS					mg/L	17	20	21	21
Carb. Alkalinity (calc. as CaCO3)					mg/L	<1.0	<1.0	<1.0	<1.0
Cation Sum					me/L	0.28	0.370	0.410	0.38
Hardness (CaCO3)					mg/L	2.9	4.3	5.7	4.9
Ion Balance (% Difference)					%	14.3	27.6	30.2	5.88
Langelier Index (@ 20C)					N/A	NC	NC	NC	NC
Langelier Index (@ 4C)					N/A	NC	NC	NC	NC
Nitrate (N)		3		mg/L	<0.050	<0.050	<0.050	<0.050	<0.050
Saturation pH (@ 20C)				N/A	NC	NC	NC	NC	NC
Saturation pH (@ 4C)				N/A	NC	NC	NC	NC	NC
Total Alkalinity (Total as CaCO3)				mg/L	<5.0	<5.0	<5.0	<5.0	<5.0
Dissolved Chloride (Cl-)		120		mg/L	7.4	7.3	7.7	11	8.8
Colour				TCU	150	210	380	180	190
Nitrate + Nitrite (N)				mg/L	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrite (N)		0.06		mg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate (P)				mg/L	<0.010	0.011	<0.010	<0.010	<0.010
pH		6.5-9.0	5.6	pH	4.64	5.32	4.43	4.43	4.51
Reactive Silica (SiO2)				mg/L	3.5	4.5	4.8	4.4	4.3
Dissolved Sulphate (SO4)				mg/L	<2.0	<2.0	<2.0	<2.0	<2.0
Turbidity				NTU	0.98	14	1.7	1.2	0.71
Conductivity				uS/cm	37	38	50	52	52
Nitrogen (Ammonia Nitrogen)		48 ⁷		mg/L	<0.050	<0.050	<0.050	<0.050	<0.050
Total Organic Carbon (C)				mg/L	14	22	43	19	19
Total Suspended Solids				mg/L	<1.0	5.2	2.4	<1.0	<1.0

LEGEND	
"N/A"	Not Applicable
Red with White Text	Exceeds Applicable Criteria

Notes:

- ¹ - Aluminum - pH dependant, <6.5 = 0.005 mg/L, >6.5 = 0.1 mg/L
² - Copper - Hardness Dependant, <120 mg/L = 0.002 mg/L, 120 to 180 mg/L = 0.002 to 0.004 mg/L, >180 mg/L = 0.004 mg/L
³ - Lead - Hardness Dependant, <60 mg/L = 0.001 mg/L, 60-180 mg/L = 0.001 mg/L to 0.007 mg/L, >180 mg/L = 0.007 mg/L
⁴ - Manganese - Hardness and pH Dependant. Hardness <10mg/L and pH of 5.5 assumed
⁵ - Nickel - Hardness Dependant, <60 mg/L = 0.025 mg/L, 60-180 mg/L = 0.025 mg/L to 0.15 mg/L, >180 mg/L = 0.15 mg/L
⁶ - Zinc - Hardness, pH and DOC Depend. Hardness of 50 mg/L, pH of 7.5 and DOC of 0.5 mg/L assumed.
⁷ - Nitrogen - pH and Temperature Depend. pH of 6 and Temperature of 20 degrees Celsius assumed.

Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by BV Labs.

REPORT FILTERS	Table A.3-Gold Brook Lake
Samples	Multiple
Analytes	Multiple
Criteria 1	CCME Fresh Water Aquatic - LT
Criteria 2	95th Percentile

Report Group	Parameter Name	Sample ID			Goldbrook Lake South	Goldbrook Lake South	Goldbrook Lake South	Goldbrook Lake South	Goldbrook Lake South	Goldbrook Lake South	Goldbrook Lake South
		Criteria 1	Criteria 2	Units	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	
					Q1	Q1-Duplicate	Q2	Q2-Duplicate	Q3	Q3-Duplicate	
					2021-02-09	2021-02-09	2021-06-28	2021-06-28	2021-09-20	2021-09-20	2021-11-29
		Matrix	Sampling Event		Result	Result	Result	Result	Result	Result	Result
		Sampling Date									
Elements by ICP/MS	Total Aluminum (Al)	0.1 ¹	0.242	mg/L	0.317	0.327	0.257	0.245	0.334	0.324	0.388
Elements by ICP/MS	Total Antimony (Sb)			mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Elements by ICP/MS	Total Arsenic (As)	0.005	0.0324	mg/L	0.0063	0.0065	0.0079	0.0209	0.0737	0.0748	0.006
Elements by ICP/MS	Total Barium (Ba)			mg/L	0.0027	0.0026	0.0020	0.0019	0.0020	0.0023	0.0032
Elements by ICP/MS	Total Beryllium (Be)			mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010
Elements by ICP/MS	Total Bismuth (Bi)			mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Elements by ICP/MS	Total Boron (B)	1.5		mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Elements by ICP/MS	Total Cadmium (Cd)	0.00004	0.000011	mg/L	0.000013	0.000016	0.000011	<0.000010	0.000012	0.000010	0.000017
Elements by ICP/MS	Total Calcium (Ca)			mg/L	0.63	0.62	0.48	0.46	0.62	0.62	0.75
Elements by ICP/MS	Total Chromium (Cr)			mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Elements by ICP/MS	Total Cobalt (Co)			mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Elements by ICP/MS	Total Copper (Cu)	0.002 ²	0.002	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00056	0.00054	0.00053
Elements by ICP/MS	Total Iron (Fe)	0.3	0.457	mg/L	0.405	0.431	0.351	0.355	0.697	0.699	0.555
Elements by ICP/MS	Total Lead (Pb)	0.001 ³		mg/L	0.00056	0.00052	<0.00050	<0.00050	0.00067	0.00063	0.00062
Elements by ICP/MS	Total Magnesium (Mg)			mg/L	0.52	0.55	0.36	0.35	0.40	0.41	0.64
Elements by ICP/MS	Total Manganese (Mn)	0.19 ⁴		mg/L	0.0199	0.0203	0.0118	0.0103	0.0158	0.0154	0.0251
Elements by ICP/MS	Total Molybdenum (Mo)	0.073		mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Elements by ICP/MS	Total Nickel (Ni)	0.025 ⁵		mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Elements by ICP/MS	Total Phosphorus (P)			mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Elements by ICP/MS	Total Potassium (K)			mg/L	0.33	0.31	0.35	0.34	0.31	0.32	0.36
Elements by ICP/MS	Total Selenium (Se)	0.001		mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Elements by ICP/MS	Total Silver (Ag)	0.00025		mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Elements by ICP/MS	Total Sodium (Na)			mg/L	4.21	4.27	3.50	3.37	3.68	3.61	4.4
Elements by ICP/MS	Total Strontium (Sr)			mg/L	0.0072	0.0074	0.0054	0.0050	0.0064	0.0060	0.0084
Elements by ICP/MS	Total Thallium (Tl)	0.0008		mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Elements by ICP/MS	Total Tin (Sn)			mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Elements by ICP/MS	Total Titanium (Ti)			mg/L	0.0033	0.0039	0.0037	0.0030	0.0053	0.0047	0.0051
Elements by ICP/MS	Total Uranium (U)	0.015		mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Elements by ICP/MS	Total Vanadium (V)			mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Elements by ICP/MS	Total Zinc (Zn)	0.007 ⁶	0.0089	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Anion Sum			me/L	0.24	0.24	0.200	0.110	0.150	0.100	0.26
	Bicarb. Alkalinity (calc. as CaCO3)			mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Calculated TDS			mg/L	18	18	14	10	13	11	19
	Carb. Alkalinity (calc. as CaCO3)			mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Cation Sum			me/L	0.3	0.3	0.230	0.230	0.260	0.260	0.34
	Hardness (CaCO3)			mg/L	3.7	3.8	2.7	2.6	3.2	3.2	4.5
	Ion Balance (% Difference)			%	11.1	11.1	6.98	35.3	26.8	44.4	13.3
	Langelier Index (@ 20C)			N/A	NC	NC	NC	NC	NC	NC	NC
	Langelier Index (@ 4C)			N/A	NC	NC	NC	NC	NC	NC	NC
	Nitrate (N)	3		mg/L	0.076	0.055	<0.050	<0.050	<0.050	<0.050	<0.050
	Saturation pH (@ 20C)			N/A	NC	NC	NC	NC	NC	NC	NC
	Saturation pH (@ 4C)			N/A	NC	NC	NC	NC	NC	NC	NC
	Total Alkalinity (Total as CaCO3)			mg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Dissolved Chloride (Cl-)	120	6.5	mg/L	8.2	8.2	5.3	4.0	5.4	3.6	9.2
	Colour			TCU	140	150	120	87	140	120	200
	Nitrate + Nitrite (N)			mg/L	0.076	0.055	<0.050	<0.050	<0.050	<0.050	<0.050
	Nitrite (N)	0.06		mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	Orthophosphate (P)			mg/L	<0.010	<0.010	<0.010	<0.010	0.020	0.023	<0.010
	pH	6.5-9.0	6.06	pH	4.75	4.89	5.29	5.74	5.22	5.56	4.63
	Reactive Silica (SiO2)			mg/L	3.5	3.4	1.4	1.3	1.5	1.7	3.5
	Dissolved Sulphate (SO4)			mg/L	<2.0	<2.0	2.3	<2.0	<2.0	<2.0	<2.0
	Turbidity			NTU	1.5	1.2	1.3	1.9	2.9	3.8	1.4
	Conductivity			uS/cm	37	37	25	26	30	31	43
	Nitrogen (Ammonia Nitrogen)	48 ⁷		mg/L	<0.050	<0.050	<0.050	0.063	<0.050	<0.050	0.07
	Total Organic Carbon (C)			mg/L	14	14	8.9	8.2	12	12	18
	Total Suspended Solids			mg/L	2	1.6	2.6	2.2	4.4	5.2	<1.0

LEGEND	
"N/A"	Not Applicable
Red with White Text	Exceeds Applicable Criteria

Notes:

¹ - Aluminum - pH dependent, <6.5 = 0.005 mg/L, >6.5 = 0.1 mg/L

² - Copper - Hardness Dependent, <120 mg/L = 0.002 mg/L, 120 to 180 mg/L = 0.002 to 0.004 mg/L, >180 mg/L = 0.004 mg/L

³ - Lead - Hardness Dependent, <60 mg/L = 0.001 mg/L, 60-180 mg/L = 0.001 mg/L to 0.007 mg/L, >180 mg/L = 0.007 mg/L

⁴ - Manganese - Hardness and pH Dependent. Hardness <10mg/L and pH of 5.5 assumed

⁵ - Nickel - Hardness Dependent, <60 mg/L = 0.025 mg/L, 60-180 mg/L = 0.025 mg/L to 0.15 mg/L, >180 mg/L = 0.15 mg/L

⁶ - Zinc - Hardness, pH and DOC Dependent. Hardness of 50 mg/L, pH of 7.5 and DOC of 0.5 mg/L assumed.

⁷ - Nitrogen - pH and Temperature Dependent. pH of 6 and Temperature of 20 degrees Celsius assumed.

Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by BV Labs.



Anaconda
Mining

REPORT FILTERS	Table A.4-Boston-Richardson Shaft
Samples	Multiple
Analytes	Multiple
Criteria 1	CCME Fresh Water Aquatic - LT
Criteria 2	95th Percentile

Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Sample ID	Boston-Richardson Shaft	Boston-Richardson Shaft	Boston-Richardson Shaft	Boston-Richardson Shaft
					Matrix	Surface Water	Surface Water	Surface Water	Surface Water
					Sampling Event	Q1	Q2	Q3	Q4
Sampling Date					2021-02-09	2021-06-28	2021-09-20	2021-11-29	
					Result	Result	Result	Result	
Elements by ICP/MS	Total Aluminum (Al)	0.1 ¹	0.077	mg/L	0.0202	0.0230	0.0573	0.0382	
Elements by ICP/MS	Total Antimony (Sb)			mg/L	0.0013	<0.0010	<0.0010	0.002	
Elements by ICP/MS	Total Arsenic (As)	0.005	0.39	mg/L	0.173	0.0231	0.0708	0.376	
Elements by ICP/MS	Total Barium (Ba)			mg/L	0.0054	0.0047	0.0051	0.0054	
Elements by ICP/MS	Total Beryllium (Be)			mg/L	<0.0010	<0.0010	<0.00010	<0.00010	
Elements by ICP/MS	Total Bismuth (Bi)			mg/L	<0.0020	<0.0020	<0.0020	<0.0020	
Elements by ICP/MS	Total Boron (B)	1.5		mg/L	<0.050	<0.050	<0.050	0.057	
Elements by ICP/MS	Total Cadmium (Cd)	0.00004		mg/L	0.000025	0.000015	0.000020	0.000065	
Elements by ICP/MS	Total Calcium (Ca)			mg/L	9.36	8.64	8.97	14	
Elements by ICP/MS	Total Chromium (Cr)			mg/L	<0.0010	<0.0010	<0.0010	<0.0010	
Elements by ICP/MS	Total Cobalt (Co)			mg/L	0.00047	<0.00040	0.00064	0.00076	
Elements by ICP/MS	Total Copper (Cu)	0.002 ²		mg/L	0.00202	0.00104	0.00132	0.00275	
Elements by ICP/MS	Total Iron (Fe)	0.3	7.23	mg/L	0.435	0.192	0.538	0.564	
Elements by ICP/MS	Total Lead (Pb)	0.001 ³	0.00167	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	
Elements by ICP/MS	Total Magnesium (Mg)			mg/L	0.93	0.81	0.64	1.08	
Elements by ICP/MS	Total Manganese (Mn)	0.19 ⁴		mg/L	0.0867	0.0891	0.109	0.104	
Elements by ICP/MS	Total Molybdenum (Mo)	0.073		mg/L	<0.0020	<0.0020	<0.0020	<0.0020	
Elements by ICP/MS	Total Nickel (Ni)	0.025 ⁵	0.0026	mg/L	0.003	0.0022	<0.0020	0.0029	
Elements by ICP/MS	Total Phosphorus (P)			mg/L	<0.10	<0.10	<0.10	<0.10	
Elements by ICP/MS	Total Potassium (K)			mg/L	2.12	2.11	2.18	3.26	
Elements by ICP/MS	Total Selenium (Se)	0.001		mg/L	<0.00050	<0.00050	<0.00050	<0.00050	
Elements by ICP/MS	Total Silver (Ag)	0.00025		mg/L	<0.00010	<0.00010	<0.00010	<0.00010	
Elements by ICP/MS	Total Sodium (Na)			mg/L	4.98	4.74	3.90	4.72	
Elements by ICP/MS	Total Strontium (Sr)			mg/L	0.0461	0.0462	0.0421	0.0493	
Elements by ICP/MS	Total Thallium (Tl)	0.0008		mg/L	<0.00010	<0.00010	<0.00010	<0.00010	
Elements by ICP/MS	Total Tin (Sn)			mg/L	<0.0020	<0.0020	<0.0020	<0.0020	
Elements by ICP/MS	Total Titanium (Ti)			mg/L	<0.0020	0.0031	0.0039	<0.0020	
Elements by ICP/MS	Total Uranium (U)	0.015	0.00012	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	
Elements by ICP/MS	Total Vanadium (V)			mg/L	<0.0020	<0.0020	<0.0020	<0.0020	
Elements by ICP/MS	Total Zinc (Zn)	0.007 ⁶	0.0139	mg/L	0.0108	0.0101	0.0096	0.0107	
	Anion Sum			me/L	0.89	0.800	0.760	1.27	
	Bicarb. Alkalinity (calc. as CaCO3)			mg/L	17	20	23	31	
	Calculated TDS			mg/L	61	52	48	81	
	Carb. Alkalinity (calc. as CaCO3)			mg/L	<1.0	<1.0	<1.0	<1.0	
	Cation Sum			me/L	0.83	0.760	0.750	1.1	
	Hardness (CaCO3)			mg/L	27	25	25	39	
	Ion Balance (% Difference)			%	3.49	2.56	0.660	7.17	
	Langelier Index (@ 20C)			N/A	-2.56	-2.25	-1.88	-1.77	
	Langelier Index (@ 4C)			N/A	-2.81	-2.50	-2.13	-2.02	
	Nitrate (N)	3		mg/L	0.46	0.069	<0.050	0.49	
	Saturation pH (@ 20C)			N/A	9.13	9.07	9.00	8.69	
	Saturation pH (@ 4C)			N/A	9.38	9.32	9.25	8.94	
	Total Alkalinity (Total as CaCO3)			mg/L	17	20	23	31	
	Dissolved Chloride (Cl-)	120	7.17	mg/L	8.1	6.1	5.2	7.2	
	Colour			TCU	5.7	<5.0	7.2	8.1	
	Nitrate + Nitrite (N)			mg/L	0.46	0.069	<0.050	0.49	
	Nitrite (N)	0.06		mg/L	<0.010	<0.010	<0.010	<0.010	
	Orthophosphate (P)			mg/L	0.013	<0.010	<0.010	0.091	
	pH	6.5-9.0	7.1	pH	6.56	6.82	7.12	6.92	
	Reactive Silica (SiO2)			mg/L	8.9	6.8	4.9	9.2	
	Dissolved Sulphate (SO4)			mg/L	14	10	7.7	19	
	Turbidity			NTU	2.3	1.9	3.3	3.8	
	Conductivity			uS/cm	95	81	77	120	
	Nitrogen (Ammonia Nitrogen)	48 ⁷		mg/L	<0.050	<0.050	<0.050	<0.050	
	Total Organic Carbon (C)			mg/L	1.4	1.4	1.9	2.5	
	Total Suspended Solids			mg/L	2.4	1.4	5.8	2.8	

LEGEND	
"N/A"	Not Applicable
Red with White Text	Exceeds Applicable Criteria

Notes:

¹ - Aluminum - pH dependant, <6.5 = 0.005 mg/L, >6.5 = 0.1 mg/L

² - Copper - Hardness Dependant, <120 mg/L = 0.002 mg/L, 120 to 180 mg/L = 0.002 to 0.004 mg/L, >180 mg/L = 0.004 mg/L

³ - Lead - Hardness Dependant, <60 mg/L = 0.001 mg/L, 60-180 mg/L = 0.001 mg/L to 0.007 mg/L, >180 mg/L = 0.007 mg/L

⁴ - Manganese - Hardness and pH Dependant. Hardness <10mg/L and pH of 5.5 assumed

⁵ - Nickel - Hardness Dependant, <60 mg/L = 0.025 mg/L, 60-180 mg/L = 0.025 mg/L to 0.15 mg/L, >180 mg/L = 0.15 mg/L

⁶ - Zinc - Hardness, pH and DOC Dependent. Hardness of 50 mg/L, pH of 7.5 and DOC of 0.5 mg/L assumed.

⁷ - Nitrogen - pH and Temperature Dependent. pH of 6 and Temperature of 20 degrees Celsius assumed.

Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by BV Labs.



REPORT FILTERS	Table A.6-Gold Brook Creek
Samples	Multiple
Analytes	Multiple
Criteria 1	CCME Fresh Water Aquatic - LT
Criteria 2	95th Percentile

Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Sample ID	Gold Brook Creek	Gold Brook Creek	Gold Brook Creek	Gold Brook Creek
					Matrix	Surface Water	Surface Water	Surface Water	Surface Water
					Sampling Event	Q1	Q2	Q3	Q4
					Sampling Date	2021-02-09	2021-06-28	2021-09-20	2021-11-29
					Result	Result	Result	Result	
Elements by ICP/MS	Total Aluminum (Al)	0.1 ¹	0.286	mg/L	0.3	0.326	0.349	0.392	
Elements by ICP/MS	Total Antimony (Sb)			mg/L	<0.0010	<0.0010	<0.0010	<0.0010	
Elements by ICP/MS	Total Arsenic (As)	0.005	0.568	mg/L	0.0227	0.273	0.222	0.0439	
Elements by ICP/MS	Total Barium (Ba)			mg/L	0.0025	0.0027	0.0025	0.0036	
Elements by ICP/MS	Total Beryllium (Be)			mg/L	<0.0010	<0.0010	<0.00010	<0.00010	
Elements by ICP/MS	Total Bismuth (Bi)			mg/L	<0.0020	<0.0020	<0.0020	<0.0020	
Elements by ICP/MS	Total Boron (B)	1.5		mg/L	<0.050	<0.050	<0.050	<0.050	
Elements by ICP/MS	Total Cadmium (Cd)	0.00004		mg/L	0.000014	0.000038	<0.000010	0.000022	
Elements by ICP/MS	Total Calcium (Ca)			mg/L	0.59	1.63	0.81	0.86	
Elements by ICP/MS	Total Chromium (Cr)			mg/L	<0.0010	<0.0010	<0.0010	<0.0010	
Elements by ICP/MS	Total Cobalt (Co)			mg/L	<0.00040	<0.00040	<0.00040	<0.00040	
Elements by ICP/MS	Total Copper (Cu)	0.002 ²		mg/L	<0.00050	0.00455	<0.00050	0.00053	
Elements by ICP/MS	Total Iron (Fe)	0.3	1.653	mg/L	0.379	0.369	0.954	0.636	
Elements by ICP/MS	Total Lead (Pb)	0.001 ³	0.00052	mg/L	0.00063	0.00162	0.00061	0.00069	
Elements by ICP/MS	Total Magnesium (Mg)			mg/L	0.5	0.36	0.45	0.66	
Elements by ICP/MS	Total Manganese (Mn)	0.19 ⁴		mg/L	0.0218	0.0273	0.0944	0.0388	
Elements by ICP/MS	Total Molybdenum (Mo)	0.073		mg/L	<0.0020	<0.0020	<0.0020	<0.0020	
Elements by ICP/MS	Total Nickel (Ni)	0.025 ⁵		mg/L	<0.0020	0.0028	0.0050	<0.0020	
Elements by ICP/MS	Total Phosphorus (P)			mg/L	<0.10	0.11	<0.10	<0.10	
Elements by ICP/MS	Total Potassium (K)			mg/L	0.3	0.74	0.36	0.37	
Elements by ICP/MS	Total Selenium (Se)	0.001		mg/L	<0.00050	<0.00050	<0.00050	<0.00050	
Elements by ICP/MS	Total Silver (Ag)	0.00025		mg/L	<0.00010	<0.00010	<0.00010	<0.00010	
Elements by ICP/MS	Total Sodium (Na)			mg/L	3.98	1.66	3.79	4.55	
Elements by ICP/MS	Total Strontium (Sr)			mg/L	0.0074	0.0051	0.0081	0.009	
Elements by ICP/MS	Total Thallium (Tl)	0.0008		mg/L	<0.00010	<0.00010	<0.00010	<0.00010	
Elements by ICP/MS	Total Tin (Sn)			mg/L	<0.0020	<0.0020	<0.0020	<0.0020	
Elements by ICP/MS	Total Titanium (Ti)			mg/L	0.004	0.0112	0.0064	0.0053	
Elements by ICP/MS	Total Uranium (U)	0.015		mg/L	<0.00010	<0.00010	<0.00010	<0.00010	
Elements by ICP/MS	Total Vanadium (V)			mg/L	<0.0020	<0.0020	<0.0020	<0.0020	
Elements by ICP/MS	Total Zinc (Zn)	0.007 ⁶		mg/L	<0.0050	0.0128	0.0293	<0.0050	
	Anion Sum			me/L	0.23	0.320	0.180	0.27	
	Bicarb. Alkalinity (calc. as CaCO3)			mg/L	<1.0	6.7	<1.0	<1.0	
	Calculated TDS			mg/L	18	16	15	20	
	Carb. Alkalinity (calc. as CaCO3)			mg/L	<1.0	<1.0	<1.0	<1.0	
	Cation Sum			me/L	0.28	0.220	0.290	0.35	
	Hardness (CaCO3)			mg/L	3.5	5.5	3.9	4.9	
	Ion Balance (% Difference)			%	9.8	18.5	23.4	12.9	
	Langelier Index (@ 20C)			N/A	NC	-3.77	NC	NC	
	Langelier Index (@ 4C)			N/A	NC	-4.02	NC	NC	
	Nitrate (N)	3		mg/L	0.057	<0.050	<0.050	<0.050	
	Saturation pH (@ 20C)			N/A	NC	10.2	NC	NC	
	Saturation pH (@ 4C)			N/A	NC	10.5	NC	NC	
	Total Alkalinity (Total as CaCO3)			mg/L	<5.0	6.7	<5.0	<5.0	
	Dissolved Chloride (Cl-)	120	7.6	mg/L	8	3.1	6.1	9.4	
	Colour			TCU	150	5.4	150	200	
	Nitrate + Nitrite (N)			mg/L	0.057	<0.050	<0.050	<0.050	
	Nitrite (N)	0.06		mg/L	<0.010	<0.010	<0.010	<0.010	
	Orthophosphate (P)			mg/L	<0.010	0.052	0.054	0.016	
	pH	6.5-9.0	7.13	pH	4.8	6.47	5.67	4.72	
	Reactive Silica (SiO2)			mg/L	3.4	<0.50	1.7	3.6	
	Dissolved Sulphate (SO4)			mg/L	<2.0	4.5	<2.0	<2.0	
	Turbidity			NTU	1.6	18	4.0	1	
	Conductivity			uS/cm	37	20	31	43	
	Nitrogen (Ammonia Nitrogen)	48 ⁷		mg/L	<0.050	<0.050	0.051	<0.050	
	Total Organic Carbon (C)			mg/L	13	8.4	12	18	
	Total Suspended Solids			mg/L	1.2	110	4.8	<1.0	

LEGEND	
"N/A"	Not Applicable
Red with White Text	Exceeds Applicable Criteria

Notes:

¹ - Aluminum - pH dependant, <6.5 = 0.005 mg/L, >6.5 = 0.1 mg/L

² - Copper - Hardness Dependant, <120 mg/L = 0.002 mg/L, 120 to 180 mg/L = 0.002 to 0.004 mg/L, >180 mg/L = 0.004 mg/L

³ - Lead - Hardness Dependant, <60 mg/L = 0.001 mg/L, 60-180 mg/L = 0.001 mg/L to 0.007 mg/L, >180 mg/L = 0.007 mg/L

⁴ - Manganese - Hardness and pH Dependant. Hardness <10mg/L and pH of 5.5 assumed

⁵ - Nickel - Hardness Dependant, <60 mg/L = 0.025 mg/L, 60-180 mg/L = 0.025 mg/L to 0.15 mg/L, >180 mg/L = 0.15 mg/L

⁶ - Zinc - Hardness, pH and DOC Dependent. Hardness of 50 mg/L, pH of 7.5 and DOC of 0.5 mg/L assumed.

⁷ - Nitrogen - pH and Temperature Dependent. pH of 6 and Temperature of 20 degrees Celsius assumed.

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REPORT FILTERS	Table A.7-Drainage from Ore Stockpile
Samples	Multiple
Analytes	Multiple
Criteria 1	CCME Fresh Water Aquatic - LT

Sample ID Matrix Sample Event Sampling Date				Drainage from Ore Stockpile Surface Water Q2 2021-06-28	Drainage from Ore Stockpile Surface Water Q3 2021-09-20	Drainage from Ore Stockpile Surface Water Q4 2021-11-29
Report Group	Parameter Name	Criteria 1	Units	Result	Result	Result
Elements by ICP/MS	Total Aluminum (Al)	0.1 ¹	mg/L	0.257	0.180	0.117
Elements by ICP/MS	Total Antimony (Sb)		mg/L	<0.0010	<0.0010	0.0013
Elements by ICP/MS	Total Arsenic (As)	0.005	mg/L	0.369	1.13	2.02
Elements by ICP/MS	Total Barium (Ba)		mg/L	0.0025	0.0027	0.0018
Elements by ICP/MS	Total Beryllium (Be)		mg/L	<0.0010	<0.00010	<0.00010
Elements by ICP/MS	Total Bismuth (Bi)		mg/L	<0.0020	<0.0020	<0.0020
Elements by ICP/MS	Total Boron (B)	1.5	mg/L	<0.050	<0.050	<0.050
Elements by ICP/MS	Total Cadmium (Cd)	0.00004	mg/L	0.000010	0.000029	0.000027
Elements by ICP/MS	Total Calcium (Ca)		mg/L	0.98	9.17	7.75
Elements by ICP/MS	Total Chromium (Cr)		mg/L	<0.0010	<0.0010	<0.0010
Elements by ICP/MS	Total Cobalt (Co)		mg/L	<0.00040	0.00058	<0.00040
Elements by ICP/MS	Total Copper (Cu)	0.002 ²	mg/L	0.00066	0.00076	0.00102
Elements by ICP/MS	Total Iron (Fe)	0.3	mg/L	1.01	0.272	0.128
Elements by ICP/MS	Total Lead (Pb)	0.001 ³	mg/L	0.00061	0.00199	0.00066
Elements by ICP/MS	Total Magnesium (Mg)		mg/L	0.43	0.42	0.8
Elements by ICP/MS	Total Manganese (Mn)	0.19 ⁴	mg/L	0.0601	0.0445	0.018
Elements by ICP/MS	Total Molybdenum (Mo)	0.073	mg/L	<0.0020	<0.0020	<0.0020
Elements by ICP/MS	Total Nickel (Ni)	0.025 ⁵	mg/L	<0.0020	0.0031	0.0041
Elements by ICP/MS	Total Phosphorus (P)		mg/L	<0.10	<0.10	<0.10
Elements by ICP/MS	Total Potassium (K)		mg/L	0.40	0.93	0.92
Elements by ICP/MS	Total Selenium (Se)	0.001	mg/L	<0.00050	<0.00050	<0.00050
Elements by ICP/MS	Total Silver (Ag)	0.00025	mg/L	<0.00010	<0.00010	<0.00010
Elements by ICP/MS	Total Sodium (Na)		mg/L	3.68	0.47	4.34
Elements by ICP/MS	Total Strontium (Sr)		mg/L	0.0085	0.0287	0.0311
Elements by ICP/MS	Total Thallium (Tl)	0.0008	mg/L	<0.00010	<0.00010	<0.00010
Elements by ICP/MS	Total Tin (Sn)		mg/L	<0.0020	<0.0020	<0.0020
Elements by ICP/MS	Total Titanium (Ti)		mg/L	0.0043	0.0076	0.0044
Elements by ICP/MS	Total Uranium (U)	0.015	mg/L	<0.00010	<0.00010	<0.00010
Elements by ICP/MS	Total Vanadium (V)		mg/L	<0.0020	<0.0020	<0.0020
Elements by ICP/MS	Total Zinc (Zn)	0.007 ⁶	mg/L	<0.0050	0.0080	0.0072
	Total Suspended Solids		mg/L	34	9.6	4.8
	Anion Sum		me/L	0.240	0.590	0.65
	Bicarb. Alkalinity (calc. as CaCO3)		mg/L	5.2	5.1	<1.0
	Calculated TDS		mg/L	16	38	43
	Carb. Alkalinity (calc. as CaCO3)		mg/L	<1.0	<1.0	<1.0
	Cation Sum		me/L	0.290	0.530	0.68
	Hardness (CaCO3)		mg/L	4.2	24	23
	Ion Balance (% Difference)		%	9.43	5.36	2.26
	Langelier Index (@ 20C)		N/A	-4.50	-3.35	NC
	Langelier Index (@ 4C)		N/A	-4.75	-3.60	NC
	Nitrate (N)	3	mg/L	<0.050	0.20	0.2
	Saturation pH (@ 20C)		N/A	10.6	9.63	NC
	Saturation pH (@ 4C)		N/A	10.8	9.88	NC
	Total Alkalinity (Total as CaCO3)		mg/L	5.2	5.1	<5.0
	Dissolved Chloride (Cl-)	120	mg/L	4.6	1.5	10
	Colour		TCU	93	<5.0	7.4
	Nitrate + Nitrite (N)		mg/L	<0.050	0.20	0.2
	Nitrite (N)	0.06	mg/L	<0.010	<0.010	<0.010
	Orthophosphate (P)		mg/L	0.068	<0.50	<0.60
	pH	6.5-9.0	pH	6.07	6.28	6.29
	Reactive Silica (SiO2)		mg/L	1.5	0.81	1.2
	Dissolved Sulphate (SO4)		mg/L	<2.0	21	17
	Turbidity		NTU	3.9	14	2.6
	Conductivity		uS/cm	28	68	82
	Nitrogen (Ammonia Nitrogen)	48 ⁷	mg/L	<0.050	0.086	0.12
	Total Organic Carbon (C)		mg/L	10	6.3	0.97

LEGEND	
"N/A"	Not Applicable
Red with White Text	Exceedance

Notes:

¹ - Aluminum - pH dependant, <6.5 = 0.005 mg/L, >6.5 = 0.1 mg/L

² - Copper - Hardness Dependant, <120 mg/L = 0.002 mg/L, 120 to 180 mg/L = 0.002 to 0.004 mg/L, >180 mg/L = 0.004 mg/L

³ - Lead - Hardness Dependant, <60 mg/L = 0.001 mg/L, 60-180 mg/L = 0.001 mg/L to 0.007 mg/L, >180 mg/L = 0.007 mg/L

⁴ - Manganese - Hardness and pH Dependant. Hardness <10mg/L and pH of 5.5 assumed

⁵ - Nickel - Hardness Dependant, <60 mg/L = 0.025 mg/L, 60-180 mg/L = 0.025 mg/L to 0.15 mg/L, >180 mg/L = 0.15 mg/L

⁶ - Zinc - Hardness, pH and DOC Dependant. Hardness of 50 mg/L, pH of 7.5 and DOC of 0.5 mg/L assumed.

⁷ - Nitrogen - pH and Temperature Dependent. pH of 6 and Temperature of 20 degrees Celsius assumed.

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Table 8- Relative Percent Difference (RPD) In Surface Water Samples

Parameter	Unit	Goldbrook Lake South-Q1	Goldbrook Lake South Q1-Duplicate	RPD (%)	Goldbrook Lake South-Q2	Goldbrook Lake South Q2-Duplicate	RPD (%)	Goldbrook Lake South-Q3	Goldbrook Lake South Q3-Duplicate	RPD (%)	Beaver Pond Outflow-Q4	Beaver Pond Outflow-Q4 Duplicate	RPD (%)
Total Aluminum (Al)	mg/L	0.317	0.327	3.11	0.257	0.245	5	0.334	0.324	3	0.414	0.428	3
Total Antimony (Sb)	mg/L	<0.0010	<0.0010	N/A	<0.0010	<0.0010	N/A	<0.0010	<0.0010	N/A	<0.0010	<0.0010	N/A
Total Arsenic (As)	mg/L	0.0063	0.0065	3.13	0.0079	0.0209	90	0.0737	0.0748	1	0.0077	0.008	4
Total Barium (Ba)	mg/L	0.0027	0.0026	3.77	0.0020	0.0019	5	0.0020	0.0023	14	0.003	0.0032	6
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	N/A	<0.0010	<0.0010	N/A	<0.00010	<0.00010	N/A	<0.00010	<0.00010	N/A
Total Bismuth (Bi)	mg/L	<0.0020	<0.0020	N/A	<0.0020	<0.0020	N/A	<0.0020	<0.0020	N/A	<0.0020	<0.0020	N/A
Total Boron (B)	mg/L	<0.050	<0.050	N/A	<0.050	<0.050	N/A	<0.050	<0.050	N/A	<0.050	<0.050	N/A
Total Cadmium (Cd)	mg/L	0.000013	0.000016	20.69	0.000011	<0.000010	N/A	0.000012	0.000010	18	0.00002	0.000021	5
Total Calcium (Ca)	mg/L	0.63	0.62	1.60	0.48	0.46	4	0.62	0.62	0	0.69	0.76	10
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	N/A	<0.0010	<0.0010	N/A	<0.0010	<0.0010	N/A	<0.0010	<0.0010	N/A
Total Cobalt (Co)	mg/L	<0.00040	<0.00040	N/A	<0.00040	<0.00040	N/A	<0.00040	<0.00040	N/A	<0.00040	<0.00040	N/A
Total Copper (Cu)	mg/L	<0.00050	<0.00050	N/A	<0.00050	<0.00050	N/A	0.00056	0.00054	4	<0.00050	<0.00050	N/A
Total Iron (Fe)	mg/L	0.405	0.431	6.22	0.351	0.355	1	0.697	0.699	0	0.736	0.755	3
Total Lead (Pb)	mg/L	0.00056	0.00052	7.41	<0.00050	<0.00050	N/A	0.00067	0.00063	6	0.0008	0.00075	6
Total Magnesium (Mg)	me/L	0.52	0.55	5.61	0.36	0.35	3	0.40	0.41	2	0.69	0.72	4
Total Manganese (Mn)	mg/L	0.0199	0.0203	1.99	0.0118	0.0103	14	0.0158	0.0154	3	0.0459	0.0479	4
Total Molybdenum (Mo)	mg/L	<0.0020	<0.0020	N/A	<0.0020	<0.0020	N/A	<0.0020	<0.0020	N/A	<0.0020	<0.0020	N/A
Total Nickel (Ni)4	mg/L	<0.0020	<0.0020	N/A	<0.0020	<0.0020	N/A	<0.0020	<0.0020	N/A	<0.0020	<0.0020	N/A
Total Phosphorus (P)	me/L	<0.10	<0.10	N/A	<0.10	<0.10	N/A	<0.10	<0.10	N/A	<0.10	<0.10	N/A
Total Potassium (K)	mg/L	0.33	0.31	6.25	0.35	0.34	3	0.31	0.32	-3	0.51	0.53	4
Total Selenium (Se)	%	<0.00050	<0.00050	N/A	<0.00050	<0.00050	N/A	<0.00050	<0.00050	N/A	<0.00050	<0.00050	N/A
Total Silver (Ag)	N/A	<0.00010	<0.00010	N/A	<0.00010	<0.00010	N/A	<0.00010	<0.00010	N/A	<0.00010	<0.00010	N/A
Total Sodium (Na)	N/A	4.21	4.27	1.42	3.50	3.37	4	3.68	3.61	2	4.51	4.8	6
Total Strontium (Sr)	mg/L	0.0072	0.0074	2.74	0.0054	0.0050	8	0.0064	0.0060	6	0.0075	0.0079	5
Total Thallium (Tl)	N/A	<0.00010	<0.00010	N/A	<0.00010	<0.00010	N/A	<0.00010	<0.00010	N/A	<0.00010	<0.00010	N/A
Total Tin (Sn)	N/A	<0.0020	<0.0020	N/A	<0.0020	<0.0020	N/A	<0.0020	<0.0020	N/A	<0.0020	<0.0020	N/A
Total Titanium (Ti)	mg/L	0.0033	0.0039	16.67	0.0037	0.0030	21	0.0053	0.0047	12	0.0065	0.0068	5
Total Uranium (U)	mg/L	<0.00010	<0.00010	N/A	<0.00010	<0.00010	N/A	<0.00010	<0.00010	N/A	<0.00010	<0.00010	N/A
Total Vanadium (V)	TCU	<0.0020	<0.0020	N/A	<0.0020	<0.0020	N/A	<0.0020	<0.0020	N/A	<0.0020	<0.0020	N/A
Total Zinc (Zn)	mg/L	<0.0050	<0.0050	N/A	<0.0050	<0.0050	N/A	<0.0050	<0.0050	N/A	<0.0050	<0.0050	N/A
Anion Sum	mg/L	0.24	0.20	0.00	0.200	0.110	58	0.150	0.100	40	0.32	0.25	25
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	<1.0	<1.0	N/A	<1.0	<1.0	N/A	<1.0	<1.0	N/A	<1.0	<1.0	N/A
Calculated TDS	pH	18	18	0.00	14	10	33	13	11	17	23	21	9
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1.0	<1.0	N/A	<1.0	<1.0	N/A	<1.0	<1.0	N/A	<1.0	<1.0	N/A
Cation Sum	mg/L	0.3	0.3	0.00	0.230	0.230	0	0.260	0.260	0	0.36	0.38	5
Hardness (CaCO3)	NTU	3.7	3.8	-2.67	2.7	2.6	4	3.2	3.2	0	4.6	4.9	6
Ion Balance (% Difference)	uS/cm	11.1	11.1	N/A	6.98	35.3	N/A	26.8	44.4	N/A	5.88	20.6	N/A
Langelier Index (@ 20C)	mg/L	NC	NC	N/A	NC	NC	N/A	NC	NC	N/A	NC	NC	N/A
Langelier Index (@ 4C)	mg/L	NC	NC	N/A	NC	NC	N/A	NC	NC	N/A	NC	NC	N/A
Nitrate (N)	mg/L	0.076	0.055	32.06	<0.050	<0.050	N/A	<0.050	<0.050	N/A	<0.050	<0.050	N/A
Saturation pH (@ 20C)	N/A	NC	NC	N/A	NC	NC	N/A	NC	NC	N/A	NC	NC	N/A
Saturation pH (@ 4C)	N/A	NC	NC	N/A	NC	NC	N/A	NC	NC	N/A	NC	NC	N/A
Total Alkalinity (Total as CaCO3)	mg/L	<5.0	<5.0	N/A	<5.0	<5.0	N/A	<5.0	<5.0	N/A	<5.0	<5.0	N/A
Dissolved Chloride (Cl-)	mg/L	8.2	8.2	0.00	5.3	4.0	28	5.4	3.6	40	11	8.8	22
Colour	TCU	140	150	6.90	120	87	32	140	120	15	180	190	5
Nitrate + Nitrite (N)	mg/L	0.076	0.055	32.06	<0.050	<0.050	N/A	<0.050	<0.050	N/A	<0.050	<0.050	N/A
Nitrite (N)	mg/L	<0.010	<0.010	N/A	<0.010	<0.010	N/A	<0.010	<0.010	N/A	<0.010	<0.010	N/A
Orthophosphate (P)	mg/L	<0.010	<0.010	N/A	<0.010	<0.010	N/A	0.020	0.023	14	<0.010	<0.010	N/A
pH	pH	4.75	4.89	2.90	5.29	5.74	8	5.22	5.56	-6	4.43	4.51	2
Reactive Silica (SiO2)	mg/L	3.5	3.4	2.90	1.4	1.3	7	1.5	1.7	13	4.4	4.3	2
Dissolved Sulphate (SO4)	mg/L	<2.0	<2.0	N/A	2.3	<2.0	N/A	<2.0	<2.0	N/A	<2.0	<2.0	N/A
Turbidity	NTU	1.5	1.2	22.22	1.3	1.9	38	2.9	3.8	27	1.2	0.71	51
Conductivity	uS/cm	37	37	0.00	25	26	4	30	31	3	52	52	0
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	<0.050	N/A	<0.050	0.063	N/A	<0.050	<0.050	N/A	<0.050	<0.050	N/A
Total Organic Carbon (C)	mg/L	14	14	0.00	8.9	8.2	8	12	12	0	19	19	0
Total Suspended Solids	mg/L	2	1.6	22.22	2.6	2.2	17	4.4	5.2	17	<1.0	<1.0	N/A

Notes
N/A=Not applicable or one or more values below the laboratory detection limit.
RPD Greater than 80%



Appendix F.4

**Stormwater management Design
Hydrologic Modelling**



Stormwater Management Design – Hydrologic Modelling

**Goldboro Gold Project,
Guysborough County, Nova Scotia**

Anaconda Mining Inc.

May 20, 2022

GHD

110, 120 Western Parkway

Bedford, Nova Scotia B4B 0V2, Canada

T +1 902 468 1248 | **F** +1 902 468 2207 | **E** info-northamerica@ghd.com | **ghd.com**

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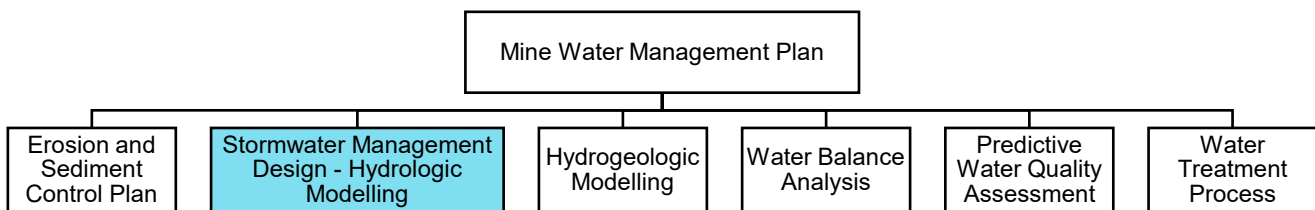
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Attachment 1	Subcatchment Parameters
Attachment 2	Model Schematic
Attachment 3	Model Output – 100-year Design Event

1. Introduction

1.1 Purpose of this report

Anaconda Mining Inc. (Anaconda) has retained GHD Limited (GHD) to provide technical services in support of an Environmental Assessment Registration Document (EARD) for the proposed Goldboro Gold Mine (the Project), located in Guysborough County, Nova Scotia (Site). GHD is working collaboratively with the Project Team, including Anaconda and other consultants, to prepare the submissions. As part of this effort, GHD was requested to develop a mine water management plan (MWMP). As a part of the MWMP, GHD has completed hydrological and hydraulic modelling of mine conditions during operations for the purpose of assisting the design of Stormwater Management (SWM) infrastructure for the Site. The modelling also supports the Water Balance Analysis (GHD, 2022a), Predictive Water Quality Assessment (PWQA) (GHD, 2022b), Erosion and Sediment Control Plan (GHD, 2022c), and Water Treatment Process (GHD, 2022d). This report presents a summary of the hydrological and hydraulic modelling performed for the Project. The chart below shows the organization of the mine water management documents.



Parameters and inputs from the Water Balance Analysis (GHD, 2022a) and Climate Data Assessment (GHD, 2021) were also used in the development of the hydrological model.

The report is organized as follows:

- Section 2 describes the SWM infrastructure conceptual layout and summarizes the design basis and criteria used in the analysis.
- Section 3 describes the model setup, assumptions, and parameters.

1.2 Scope and limitations

This report: has been prepared by GHD for Anaconda Mining Inc. and may only be used and relied on by Anaconda Mining Inc. for the purpose agreed between GHD and Anaconda Mining Inc. as set out in Section 1.1 of this report.

GHD otherwise disclaims responsibility to any person other than Anaconda Mining Inc. arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report (refer Section 3.4 of this report). GHD disclaims liability arising from any of the assumptions being incorrect.

2. Stormwater Management Infrastructure

This section provides an overview of the proposed SWM infrastructure and of the design basis and criteria.

2.1 Overview

The hydrological model presented in this document has been developed to support the design of surface water infrastructure for the mine site including:

- Contact water surface-drainage (i.e., ditches) and cross-drainage (i.e., culverts) works.
- Settling ponds.
- Pond outlet ditches.
- Clean water collection ditches along the Tailings Management Facility (TMF) berm toe.

The SWM infrastructure proposed on the Site consists of a network of ditches and culverts leading to five settling ponds: north settling pond, central settling pond, east settling pond, southwest settling pond, and southeast settling pond (refer to Figure 2.1-1).

The north settling pond is to receive mine contact water from a portion of the northwest Waste Rock Storage Area (WRSA), administrative area, and several till and/or organics piles. The central settling pond is to receive mine contact water from the remaining portion of northwest WRSA, administrative area, West Pit, and several till and/or organics piles. The north settling pond will treat the stormwater runoff and waste rock seepage for Total Suspended Solids (TSS) and arsenic using coagulants, prior to discharge to Gold Brook Lake. The central settling pond will treat the stormwater runoff, seepage from the waste rock, and West Pit dewatering product for TSS and arsenic using coagulants prior to discharge to the water treatment facility for treatment of constituents of concern identified in the Predictive Water Quality Assessment (GHD, 2022b). The water treatment plant will discharge to Gold Brook Lake.

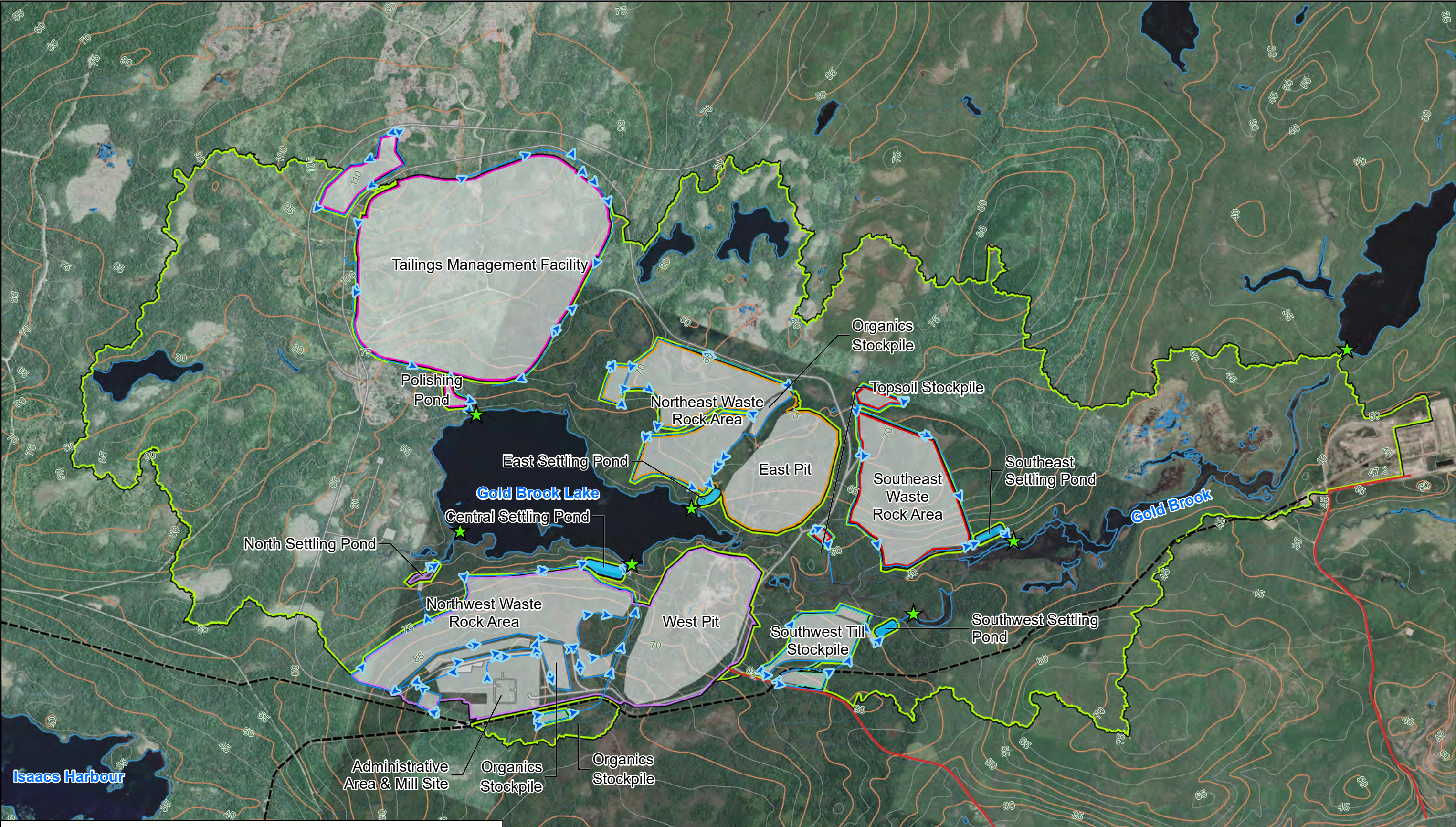
Similarly, the east settling pond will receive runoff from the northeast WRSA, East Pit, and organics piles and be treated for TSS and arsenic using coagulants, prior to being pumped to the water treatment facility in the northwest quadrant associated with the central settling pond.

The southeast settling pond will receive runoff from the southeast WRSA, and organics stockpile. The runoff and seepage are to be treated for TSS and arsenic using coagulants before discharge to an engineered wetland to treat for nitrates and nitrites. The wetland will discharge to Gold Brook. The southwest settling pond will receive runoff from organics and till stockpiles and will discharge directly to Gold Brook once treated for TSS.

Due to the use of coagulants, filter berms are not proposed as they would quickly become clogged with sediment, requiring a high level of maintenance and potentially impact performance. Energy dissipater baffles will be used at the inlet of the ponds to reduce the inflow velocity and enlarge the flow path, enhancing the settling of suspended solids. The settling ponds will have side slopes of 3H:1V. The length to width ratio for each settling pond will be maximized to the extent possible within the site constraints.

To further mitigate and reduce the risk of adverse impacts to fish, fauna and habitat downstream of the settling ponds, all pond outlet structures will be equipped with emergency shut-off valves that can be closed if any water quality parameter exceedances are triggered. The ponds will be designed with enough freeboard to accommodate the inflow while the shut-off valves are closed. To this end, each pond will be designed with enough capacity to hold the runoff volume generated by the 5-year 24-hour storm event plus 5% climate change factor, with the emergency shut-off valves closed (emergency operating conditions). In the event pond capacity is reached during an emergency shut-off, the impacted water will be pumped, or collected in a vacuum truck, and transported to the nearest settling pond with available capacity, or to the nearest open pit where it

will be held until settling pond capacity becomes available. During an emergency shut-off at the central settling pond or the northeast settling pond, excess water from the ponds will be conveyed over the emergency spillways into the open pits. From there it will be pumped back into the ponds using the pit dewatering system once capacity becomes available. During an emergency shut-off at either of the south ponds or at the northwest settling pond, the weather forecast will be monitored, and the ponds will be drained (into the central or northeast ponds) ahead of any storm event expected to be greater than a 5-year storm (98.4 mm). This will minimize the risk of unauthorized discharge to the environment.



Legend

- Pond Outfalls
- SWM Ditches
- Natural Gas Pipeline
- SWM Ponds

- Mining Infrastructure
- Local Road
- Contours (10m interval)
- Contours (5m interval)

Subcatchments

- Gold Brook
- Northeast
- Northwest
- Southeast

- Southwest
- TMF

Paper Size ANSI B

0 140 280 420 560

Metres

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983 CSRS
Grid: NAD 1983 CSRS MTM 4

ANACONDA MINING
GOLDBORO GOLD MINE
MINE WATER MANAGEMENT PLAN
STORMWATER MANAGEMENT DESIGN

**PROPOSED STORMWATER
INFRASTRUCTURE LAYOUT**

Project No. 11222385
Revision No. -
Date Apr 1, 2022

FIGURE 2.1-1

Data source: - Created by: zgui

2.2 Design Basis and Criteria

The drainage works will be designed to convey the 1:100-year storm event, while the settling ponds will be designed to achieve a minimum 24-hour detention time with a maximum detention time of approximately 48 hours, for a range of storm events from the 25 mm 4-hour storm (flushing event) up to the 1:100-year 24-hour storm event to allow for settling of TSS within the ponds during normal operating conditions. Each settling pond (except for the east settling pond) will be controlled by a multi-orifice outlet structure and will maintain a minimum permanent pool level to the invert of the first low flow orifice. The outlet structures will be fitted with gate valves to allow for complete control of outflow in the event of water quality issues in the pond discharge. The active storage during normal operating conditions will maintain 0.3 m of freeboard to the emergency spillway during the 100-year design event. The central settling pond will also be designed to ensure it has daily capacity for pit dewatering activities and east settling pond outflow during normal operations (pond outflow is maintained).

For storm events greater than the 1:100-year event, the emergency spillways will be capable of passing the design hurricane event with side slopes of 3H:1V. The spillways will be lined with rip rap on the face (at a 3H:1V slope), leading to an energy dissipation basin at the pond outlet. The outlet protection system will be refined in the detailed design stage. As mentioned previously, the settling ponds will also be designed with enough capacity to contain the 5-year 24-hour storm with no overflow in the event of an emergency shut-off (i.e., gate valve at the outflow structure is closed; emergency operating conditions). The design criteria for the SWM infrastructure are summarized in Table 2.2-1. The Ontario Stormwater Management Planning and Design Manual (MOE, 2003) and British Columbia Technical Guidance 7 for the Design, Size, and Operation of Sediment Ponds Used in Mining (2015) were used to inform the settling pond design criteria.

Table 2.2-1 Stormwater Management Infrastructure Design Criteria

Infrastructure Element	Design Criteria
Contact water ditch and culvert	Convey 100-year, 24-hour rainfall event plus 5% climate change factor
Settling pond	– Able to contain 5-year, 24-hour rainfall volume plus 5% climate change factor during an emergency shut-off (i.e., no pond outflow is allowed; emergency operating conditions only) – Minimum 24-hour detention for the: • 25mm 4-hour storm • 10-year, 24-hour storm plus 5% climate change factor • 100-year, 24-hour storm plus 5% climate change factor (with 0.3m freeboard) – Emergency spillway to pass the design hurricane event – Capacity to treat runoff, seepage, and daily pit dewatering activities during normal daily operation

To add contingency to the SWM design, the impacts due to climate change were considered when developing design storms. Nova Scotia Environment and Climate Change (NSECC) provides climate change projections across the province for 30-year time periods termed the 2020s, 2050s and 2080s. Considering the mine will be in operation for a relatively short-term (i.e., less than 20 years), the climate change projection for the 2020s was chosen. This 30-year period covers 2011-2040. The climate region containing the Site (Guysborough) indicates a 5% increase in short period rainfall intensity for the 2020s according to NSECC (2020). As such, a 5% increase to the design storm events was applied to account for potential impacts due to climate change.

2.2.1 Design Storm Development

Five design storms were used to develop and check the mine SWM infrastructure:

- 4-hour 25 mm Chicago Storm temporal distribution – Water Quality
- 1:5-year 24-hour SCS Type II temporal distribution – Water Quantity (emergency operations only)

- 1:10-year 24-hour SCS Type II temporal distribution – Water Quality
- 1:100-year 24-hour SCS Type II temporal distribution – Water Quality (ponds) and Quantity (ditches)
- Hurricane Beth, SCS Type II 48-hour event – Water Quantity (ponds)

A brief description of the design storm development is provided below. For further details, refer to the Climate Data Assessment memo (GHD, 2021).

The 1:5-year, 1:10-year, and 1:100-year design storms were developed using the 24-hours SCS Type II temporal distribution, which was selected based on a comparison with historical storm distributions observed within 70 km of the Site. The hurricane design storm was developed using two consecutive SCS Type II events as it was recorded over a 48-hour period, with the first 24-hours receiving 74% of the total rainfall. Hurricane Beth was used as the hurricane design storm, as it produced the largest 2-day precipitation recorded in Nova Scotia.

Daily precipitation data were taken from Environment and Climate Change Canada (ECCC) station Deming (8201410) and the daily maxima were computed. The daily maxima were converted to 24-hour maxima by applying a factor of 1.13 as per Huff and Angel (1989 and 1992). These maxima were fit with a Log-Pearson Type III distribution and compared against the values at the nearest ECCC IDF station, Eddy Point (8201716). The 1:10-year and 1:100-year 24-hour rainfall amounts derived from the Deming daily data were higher than those from the Eddy Point IDF. Therefore, the design storms were modelled using the 24-hour maxima derived from the Deming precipitation data. As previously mentioned, an increase of 5% was applied to the design storms to account for climate change. Table 2.2-2 provides a summary of the design storms.

Table 2.2-2 Design storms used in the SWM design

Design Storm	25mm 4-hour	5-year + 5% CC ¹	10-year + 5% CC	100-year + 5% CC	Hurricane Beth
Precipitation (mm)	25.0	98.4	111.5	153.1	296.4
Duration (hour)	4	24	24	24	48
Distribution	Chicago	SCS Type II	SCS Type II	SCS Type II	SCS Type II ²
Note 1. Climate Change (CC) factor of 5% applied to short duration rainfall as per NSECC climate change guidelines (2020) 2. 2-consecutive SCS Type II 24-hour storms (double peak) to account for high initial rainfall in the first 24-hours					

3. Surface Water Model Development

3.1 Site Drainage Characteristics

The Goldboro Gold Project is located in the Gold Brook Lake watershed. The watershed is characterized by gently sloping terrain, with elevations ranging from 65 to 80 masl (meters above sea level). The soil consists of sandy loam, silt loam and peat. Gold Brook Lake covers 79.6 ha of its watershed, draining south to Gold Brook, which discharges to Seal Harbour Lake and then to the Atlantic Ocean. The remaining site is moderately to heavily forested, with approximately one-fifth of the site comprised of swamps and marshes.

3.2 Data Collection

This section discusses the datasets collected to allow the hydrological modelling.

A Nova Scotia Department of Natural Resources Digital Elevation Model (DEM) with a planar resolution of 1 x 1 square meters was used to generate contours for the off-site and undisturbed on-site areas. The DEM

elevation data, collected in 2018, are in metres and referenced to the Canadian Geodetic Vertical Datum of 2013 (CGVD2013). Proposed contours were developed to represent the topography of the proposed mine infrastructure to characterize the on-site subcatchments. Satellite imagery from DMTI Spatial Inc (Google Earth) was available for the Site, taken in September 2015. Photographs were also taken by field staff during surface water monitoring activities in 2021.

The composition of the existing overburden in the delineated subcatchments was established via the Soil Map of Guysborough County (National Soil Database, 2002). The existing overburden in the area around the Site consisted mostly of sandy loam with some portions of the Site consisting of shaly loam to silt loam, and peat. The drainage of the existing overburden soils ranged from poor to rapid, depending on the location. The historic soil characteristics were used to determine appropriate infiltration characteristics of the off-site and undisturbed on-site area of the delineated subcatchments.

3.3 Model Selection and Extents

The hydrological (surface water) modelling was performed using PCSWMM (Version 7.4.3240) with US Environmental Protection Agency (EPA) SWMM5 engine 5.1.015. PCSWMM is a comprehensive model for stormwater collection systems and models the hydrologic response from subcatchments, and the routing of flow through channels, storage elements, weirs, etc. The model uses the full St. Venant flow equations, which allow simulating storage and backwater in conduits and the timing of the hydrographs to yield a more complete representation of the hydraulic grade line at any point in space and time. There is no limitation to model size and number of objects, which can be added in the model. The software has Geographic Information System (GIS) capabilities, topological tools, and supports incorporation of commonly used raster and vector data formats.

The model comprehends the project site, divided into smaller subcatchments. For ease of reference, the site has been divided into five named sections: Northwest Area (NW), Northeast Area (NE), Southwest Area (SW), Southeast Area (SE), and Tailings Management Facility (TMF). All model elements are named according to the area in which they are located. The projection used for the model layers was NAD83 CSRS2010 UTM Zone 20. Model elements that represent the natural or undisturbed areas that do not contribute to the contact water management (such as Gold Brook Lake, Gold Brook, and subcatchments downstream of the Site), were named with the prefix “GB”.

3.4 Assumptions

The following assumptions were made in the development of the surface water model:

- Runoff from the Administration Area (mill site) contributes to the north and central settling ponds.
- Employee Accommodations surface water management has not been included in the model, however it is understood that the area will include drainage ditches directed into the southwest settling pond.
- TMF design (including polishing pond and associated outlet) is not within the scope of this assignment; however, the ditch from the outlet to Gold Brook Lake is included.
- Outfalls in the model are “free discharging” meaning that no submergence caused by changes in water levels in Gold Brook Lake or Gold Brook have been considered.
- Water collected in the open pits is assumed to remain in the pits during a design storm, until capacity is available in the respective settling ponds. Therefore, the model assumes they will not contribute runoff volume to the settling ponds during a design storm event.
- Natural (undisturbed) areas that are not contained within a settling pond drainage area, are assumed to drain to a common outlet at the model boundary downstream.

Figure 3.4-1 shows the model extents and schematics including sub-catchments, outfalls, conduits and storage nodes.

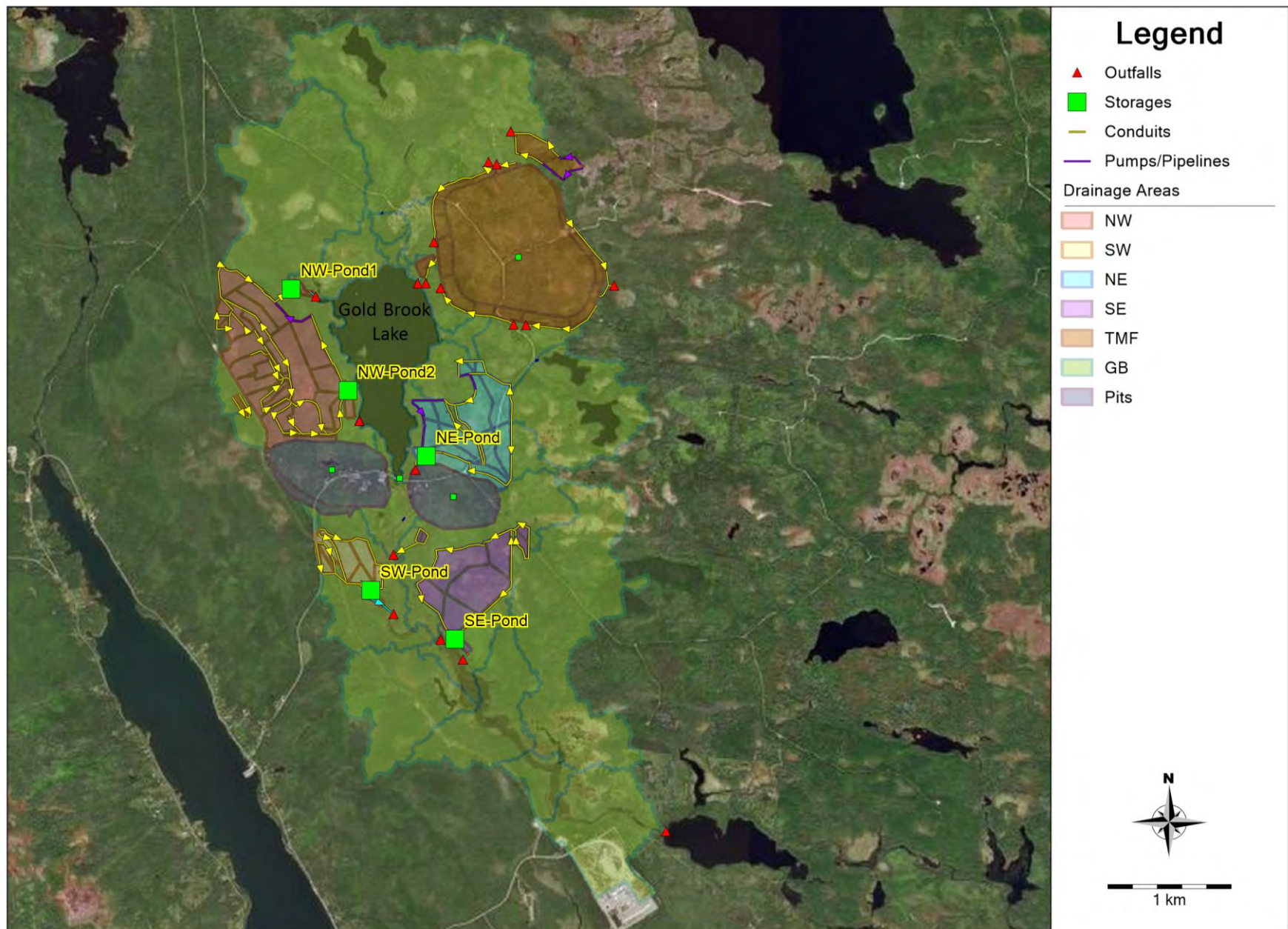


Figure 3.4-1 PCSWMM Model Extents and Schematics.

3.5 Parameter Selection

3.5.1 Climate Data

To check the settling pond performance during normal daily operations, a continuous simulation scenario is required with the associated climate parameters. The climate data were selected using the inputs from the Climate Data Assessment (GHD, 2021) and the Water Balance Analysis (GHD, 2022a). To simulate normal operating procedures, a typical (average) year of rainfall was selected. Table 3.5-1 and Table 3.5-2 show the climate data sources used in the continuous simulation model.

Table 3.5-1 Continuous Simulation Climate Data

Climate Parameter	Description	Reference
Rainfall	Malay Falls Hourly Rainfall Record for 2011 (typical year)	Climate Data Assessment (GHD, 2021)
Temperature	2011 Hourly Temperature, Malay Falls	Climate Data Assessment (GHD, 2021)
Average Monthly Evaporation	Potential evapotranspiration (mm/day) calculation using the Hamon method	Water Balance Analysis (GHD, 2022a)

Table 3.5-2 Evaporation used in Continuous Simulation

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Evaporation (mm/day)	0.15	0.13	0.35	0.96	1.51	2.10	2.61	2.74	2.16	1.39	0.85	0.36

The event-based scenarios used the design storms as described in Section 2.2.1 and assumed evaporation to be zero.

3.5.2 Subcatchments

The subcatchments delineated in PCSWMM consisted of 6 main land use types: undeveloped (natural), waste rock stockpile, organics stockpile, topsoil stockpile, administrative area, and haul road. Each land use type requires different parameters to determine the runoff capacity from each catchment. The parameters were selected based on available references for modelling stockpiles and mining infrastructure. These parameters were set based on professional judgement and experience from similar projects. **Error! Reference source not found.** shows the common parameters assigned to each subcatchment type. For a detailed list of parameters assigned to all subcatchments, refer to Attachment 1.

Table 3.5-3 Subcatchment Parameters

Land Use Type	Percent Impervious (%)	Manning's n Impervious	Manning's n Pervious	Depression Storage – Impervious (mm)	Depression Storage – Pervious (mm)	Minimum Infiltration Rate (mm/hr)	Maximum Infiltration Rate (mm/hr)
Natural	Varies	0.04	0.8	0.05	10	Varies	Varies
Waste Rock	6	0.02	0.024	2.5	20	7.6	127
Organics/ Topsoil	40	0.02	0.5	2.5	5	10.5	54.2

Table 3.5-3 Subcatchment Parameters

Land Use Type	Percent Impervious (%)	Manning's n Impervious	Manning's n Pervious	Depression Storage – Impervious (mm)	Depression Storage – Pervious (mm)	Minimum Infiltration Rate (mm/hr)	Maximum Infiltration Rate (mm/hr)
Admin Area	Varies	0.02	0.13	2.5	7.5	Varies	Varies
Haul Road	80	0.02	0.8	2.5	7.5	Varies	Varies

Infiltration Parameters

The Horton infiltration parameters were calculated for each subcatchment using an area-weighted method, based on the spatial soil data. For the haul road and administrative areas, the pervious area was assigned the same infiltration parameters as the nearest natural sub-catchment. Several stockpiles are to be constructed as a part of the mining operations. The stockpiles to be constructed include the following: waste rock, organics, and topsoil. The waste rock, organics, and topsoil subcatchments were initially assigned infiltration parameters reflecting characteristics of soil groups A and B, and the local sandy loam soil, and were then adjusted during calibration to match the target runoff coefficients provided by the water balance model (GHD, 2022a) (refer to Table 3.5-4).

Table 3.5-4 Stockpile runoff coefficients for calibration

Stockpile	Target Runoff Coefficients	
	100-year design storm	Flushing Event (25mm 4-hour storm)
Waste Rock	0.23	0.05
Organics/Topsoil	0.5	0.3

Percent Impervious

For natural subcatchments, the percent impervious values were area-weighted using satellite imagery, spatial soil data (assuming that water is 100% impervious), and engineering judgement. The on-site areas percent impervious values were calculated based on the design layout provided by Nordmin as of January 12, 2022 (haul road locations, proposed administrative area layout, etc.).

Depression Storage

Depression storage, defined as the amount of rainfall that is stored initially and does not run-off, for each land use type, ranges from 2.5 mm for large paved areas to 10 mm for wooded areas and open fields (CSPI, 2010). In natural areas, impervious depression storage is given a value approaching zero because most of the impervious area is assumed to be water. Open water subcatchments (such as settling ponds) were assumed to have no impervious depression storage. Non open water subcatchments were assumed to have depression storage in all areas, both pervious and impervious.

Manning's n Roughness Coefficients

Manning's roughness coefficients (n) for overland flow were assigned according to the assumed pervious and impervious cover. Impervious natural areas and open water subcatchments were assigned an "n" value of 0.04 after Chow (Table 5-6 of Chow, 1959). Impervious areas for developed subcatchment areas were assumed to be a compacted gravelled surface and assigned an "n" value of 0.02. Pervious undeveloped lands were assumed to be dense underbrush (n = 0.8) while developed pervious areas were assumed to be range (natural) (n = 0.13). Waste rock was assumed to have a rubble surface (n = 0.024) (McCuen et. al., 1996).

3.5.3 Conveyance

The SWM ditches, which are to convey the contact stormwater runoff to the respective settling ponds, are proposed to be open channel ditches with trapezoidal cross-sections. The contact water ditches are to be lined with an HDPE liner to prevent infiltration, a sand layer, and a surficial layer of riprap or gravel to prevent erosion. A Manning's roughness (n) of 0.069 was assumed for all contact water ditches. There are 8 proposed contact water cross culverts to convey contact water across the haul roads and 5 pond outlet culverts on site. The culverts are to be Corrugated Steel Pipe (CSP) and were assigned an "n" value of 0.027. The outlet ditches from the settling ponds are assumed to be lined with HDPE, sand, and riprap and assigned an "n" value of 0.069.

Clean water ditches convey runoff from the TMF berm and discharge to the natural environment. The ditches have trapezoidal cross-sections and will be hydroseeded to reduce erosion potential. These ditches were assigned an "n" value of 0.035.

3.5.4 Settling Ponds

The five settling ponds are modelled as storage nodes. Multiple orifices and/or weirs will be added as required to design the settling ponds with a minimum 24-hour detention time for the three water-quality events (25 mm 4-hour event, 1:10-year 24-hour event, and 1:100-year 24-hour event). An emergency spillway, which will be designed to pass the Hurricane Beth design storm, was included for each settling pond. The east settling pond does not have an outlet structure, as its effluent will be pumped to the central settling pond during normal operating conditions. The emergency spillway for the east settling pond will be designed to pass the hurricane design storm into the East Pit. The continuous simulation scenario using typical year hourly rainfall will be used to simulate normal operating conditions (pond outflow is maintained), with constant pit dewatering inflows from the West and East Pits respectively, to verify the central settling pond has daily capacity for pit dewatering activities and east settling pond outflow.

Table 3.5-5 presents a summary of the contributing areas in the model for each settling pond. Attachment 2 contains a model network diagram and Attachment 3 provides the model output for the 100-year design event.

Table 3.5-5 Settling Pond Contributing Areas and imperviousness

Parameters	North	Central	East	Southwest	Southeast
Contributing Area (ha)	30.4	55.9	48.3	15.4	40.0
% Impervious	15	27	20	36	9

4. Summary

GHD developed a hydrological and hydraulic model to determine the requirements for the design of the SWM infrastructure for the Goldboro Gold Project. The hydrological and hydraulic model was initially used to perform conceptual design of the SWM infrastructure while supporting the Predictive Water Quality Assessment and Water Balance Analysis. Upon completion of the conceptual SWM infrastructure design, the hydrological and hydraulic model, together with input from the water quality and water balance analyses, will be used to develop the detailed design the SWM infrastructure.

5. References

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Attachments

Attachment 1

Subcatchment Parameters

Table 1.1 Subcatchment Parameters for Goldboro Gold Project PCSWMM model

Subcatchment	Tag	Area (ha)	Flow Length (m)	Slope (%)	Percent Impervious (%)	Manning's n Impervious	Manning's n Pervious	Depression Storage – Impervious (mm)	Depression Storage – Pervious (mm)	Minimum Infiltration Rate (mm/hr)	Maximum Infiltration Rate (mm/hr)
GBLake	Lake	79.6131	1700.0	0.05	100	0.04	0.1	0.05	0.05	67.38	10.91
GB-S01	Natural	193.3316	1092.6	3.503	3.009	0.04	0.8	0.05	10	67.69	10.92
GB-S02	Natural	130.2723	1041.3	3.2	0	0.04	0.8	0.05	10	67.14	10.9
GB-S03	Natural	5.9221	1091.8	3.501	3.003	0.04	0.8	0.05	10	67.69	10.92
GB-S04	Natural	11.1258	679.3	5.25	1	0.04	0.8	0.05	10	67.73	10.92
GB-S06	Natural	3.5297	216.4	2	8	0.04	0.8	0.05	10	67.38	10.91
GB-S07_1	Natural	40.8441	385.3	2	3	0.04	0.8	0.05	10	67.38	10.91
GB-S08	Natural	1.0128	679.3	5.25	1	0.04	0.8	0.05	10	67.73	10.92
GB-S09	Natural	11.6494	981.9	3.7	4	0.04	0.8	0.05	10	67.73	10.92
GB-S10	Natural	6.7019	463.1	5	3	0.04	0.8	0.05	10	67.73	10.92
GB-S11	Natural	26.4012	1479.2	4.486	6	0.04	0.8	0.05	10	67.6	10.92
GB-S12	Natural	19.8825	569.1	3.75	1	0.04	0.8	0.05	10	67.73	10.92
GB-S13	Natural	75.0828	1479.2	4.486	6	0.04	0.8	0.05	10	67.6	10.92
GB-S14	Natural	10.0387	225.4	2.1	0	0.04	0.8	0.05	10	38.57	9.95
GB-S19	Natural	7.0899	251.7	4.469	0	0.04	0.8	0.05	10	54.18	10.47
GB-S22_2	Natural	7.9207	205.0	7.514	0	0.04	0.8	0.05	10	67.06	10.9
GB-S23	Natural	2.3103	66.9	14.819	0	0.04	0.8	0.05	10	67.73	10.92
GB-S24	Natural	8.9603	135.0	3.995	10	0.04	0.8	0.05	10	67.73	10.92
GB-S28	Natural	53.0034	1056.0	2.066	0	0.04	0.8	0.05	10	65.31	10.84
GB-S29	Natural	146.3086	1855.7	2.652	0	0.04	0.8	0.05	10	65.25	10.84
GB-S30	Natural	15.5757	202.4	3.204	0	0.04	0.8	0.05	10	66.56	10.88
GB-S31	Natural	39.2786	564.1	2.575	0	0.04	0.8	0.05	10	66.56	10.88
GB-S32	Natural	10.4812	697.3	2.573	0	0.04	0.8	0.05	10	66.56	10.88
GB-S35	Natural	24.6534	388.5	4.515	0	0.04	0.8	0.05	10	66.51	10.88
GB-S36	Natural	66.3072	453.6	3.548	0	0.04	0.8	0.05	10	66.64	10.88
GB-S37	Natural	56.4654	653.2	4.399	0	0.04	0.8	0.05	10	66.77	10.89

Subcatchment	Tag	Area (ha)	Flow Length (m)	Slope (%)	Percent Impervious (%)	Manning's n Impervious	Manning's n Pervious	Depression Storage – Impervious (mm)	Depression Storage – Pervious (mm)	Minimum Infiltration Rate (mm/hr)	Maximum Infiltration Rate (mm/hr)
GB-S38	Natural	17.3027	196.9	5.822	0	0.04	0.8	0.05	10	66.66	10.88
GB-S39	Natural	62.8609	460.4	2.605	20	0.04	0.8	0.05	10	66.69	10.89
GB-S40	Natural	1.3137	697.3	2.573	0	0.04	0.8	0.05	10	66.56	10.88
GB-S41	Natural	6.1703	110.0	4.469	0	0.04	0.8	0.05	10	54.18	10.47
NE-S01_1	WasteRock	8.5487	251.8	20	6	0.02	0.024	2.5	20	127	7.6
NE-S01_2	WasteRock	6.3892	251.8	20	6	0.02	0.024	2.5	20	127	7.6
NE-S02_1	WasteRock	3.6495	245.5	20	6	0.02	0.024	2.5	20	127	7.6
NE-S02_2	WasteRock	4.4869	245.5	20	6	0.02	0.024	2.5	20	127	7.6
NE-S03	Till	2.6841	102.3	20	40	0.02	0.5	2.5	5	54.2	10.5
NE-S05_1	Till	3.335	200.0	20	40	0.02	0.5	2.5	5	54.2	10.5
NE-S06	Till	2.3854	75.4	20	40	0.02	0.5	2.5	5	54.2	10.5
NE-S07	Organics	2.1061	62.1	20	40	0.02	0.5	2.5	5	54.2	10.5
NE-S08	Till	2.096	95.8	20	40	0.02	0.5	2.5	5	54.2	10.5
NE-S09	Natural	1.8175	324.8	1.7	0	0.04	0.8	0.05	10	67.73	10.92
NE-S10	Natural	3.7495	360.4	1.9	0	0.04	0.8	0.05	10	67.73	10.92
NE-S11	Organics	0.7658	90.0	20	40	0.02	0.5	2.5	5	54.2	10.5
NE-S11_3	Organics	0.4713	90.0	20	40	0.02	0.5	2.5	5	54.2	10.5
NE-S11_4	Organics	1.0365	90.0	20	40	0.02	0.5	2.5	5	54.2	10.5
NE-S12	Till	4.2672	146.8	20	40	0.02	0.5	2.5	5	54.2	10.5
NE-SPond	Natural	0.558	146.0	0.05	100	0.01	0.1	0.05	0.05	67.73	10.92
NW-S01_2	WasteRock	3.5628	300.0	20	6	0.02	0.024	2.5	20	127	7.6
NW-S01_3	WasteRock	4.5799	250.0	20	6	0.02	0.024	2.5	20	127	7.6
NW-S01_4	WasteRock	5.4908	250.0	20	6	0.02	0.024	2.5	20	127	7.6
NW-S03	WasteRock	11.1577	160.6	20	6	0.02	0.024	2.5	20	127	7.6
NW-S04	WasteRock	7.4728	173.8	20	6	0.02	0.024	2.5	20	127	7.6
NW-S05	WasteRock	4.2819	173.8	20	6	0.02	0.024	2.5	20	127	7.6
NW-S06_2	HaulRd	0.9397	110.0	4	10	0.02	0.8	2.5	10	67.06	10.9
NW-S07	Natural	6.8288	101.2	4	0	0.04	0.8	0.05	10	67.06	10.9
NW-S08	WasteRock	3.8222	165.4	20	6	0.02	0.024	2.5	20	127	7.6

Subcatchment	Tag	Area (ha)	Flow Length (m)	Slope (%)	Percent Impervious (%)	Manning's n Impervious	Manning's n Pervious	Depression Storage – Impervious (mm)	Depression Storage – Pervious (mm)	Minimum Infiltration Rate (mm/hr)	Maximum Infiltration Rate (mm/hr)
NW-S09	Organics	0.5141	55.0	20	40	0.02	0.5	2.5	5	54.2	10.5
NW-S10	Organics	0.5124	55.0	20	40	0.02	0.5	2.5	5	54.2	10.5
NW-S11	MillSite	5.6428	189.0	1	50	0.02	0.13	2.5	7.5	54.18	10.47
NW-S12	MillSite	3.7658	182.0	1	50	0.02	0.13	2.5	7.5	54.18	10.47
NW-S13	MillSite	1.8215	300.0	1	40	0.02	0.13	2.5	7.5	54.18	10.47
NW-S14	MillSite	3.5409	110.0	1	80	0.02	0.13	2.5	7.5	54.18	10.47
NW-S15	MillSite	0.8665	40.0	2	50	0.02	0.13	2.5	7.5	54.2	10.5
NW-S16	Organics	2.0344	70.0	20	40	0.02	0.5	2.5	5	54.2	10.5
NW-S17	Organics	1.998	54.0	20	40	0.02	0.5	2.5	5	54.2	10.5
NW-S18	MillSite	0.6937	75.0	2	50	0.02	0.13	2.5	7.5	54.2	10.5
NW-S19	Organics	1.1496	40.0	20	40	0.02	0.5	2.5	5	54.2	10.5
NW-S20	Organics	1.4745	45.0	20	40	0.02	0.5	2.5	5	54.2	10.5
NW-S21	Natural	1.8961	70.0	2.714	30	0.02	0.8	2.5	10	67.73	10.92
NW-S22	MillSite	2.2517	130.0	1.5	30	0.02	0.8	2.5	10	67.73	10.92
NW-S23	Natural	1.3042	120.0	2.714	10	0.02	0.8	2.5	10	67.73	10.92
NW-S25	HaulRd	2.4134	100.0	2	50	0.02	0.13	2.5	7.5	54.18	10.47
NW-S26	Natural	0.7433	200.0	3	10	0.02	0.8	2.5	10	54.18	10.47
NW-S27	HaulRd	5.47	250.0	3	30	0.02	0.8	2.5	10	67.06	10.9
NW-S28	WasteRock	1.694	50.0	20	6	0.02	0.024	2.5	20	127	7.6
NW-S29	Organics	2.1616	80.0	20	40	0.02	0.5	2.5	5	54.2	10.5
NW-SPond1	Natural	0.7832	35.0	0.05	70	0.04	0.8	0.05	10	67.38	10.91
NW-SPond2	Natural	0.94	40.0	0.05	70	0.04	0.8	0.05	10	67.267	10.906
SE-S01	WasteRock	5.3942	169.5	20	6	0.02	0.024	2.5	20	127	7.6
SE-S02	WasteRock	12.8592	182.7	20	6	0.02	0.024	2.5	20	127	7.6
SE-S03	WasteRock	5.3834	266.4	20	6	0.02	0.024	2.5	20	127	7.6
SE-S04	WasteRock	3.7999	192.9	20	6	0.02	0.024	2.5	20	127	7.6
SE-S05	WasteRock	10.0952	208.8	20	6	0.02	0.024	2.5	20	127	7.6
SE-S06	Organics	0.3209	35.0	20	40	0.02	0.5	2.5	5	54.2	10.5
SE-S07	Organics	0.332	35.0	20	40	0.02	0.5	2.5	5	54.2	10.5

Subcatchment	Tag	Area (ha)	Flow Length (m)	Slope (%)	Percent Impervious (%)	Manning's n Impervious	Manning's n Pervious	Depression Storage – Impervious (mm)	Depression Storage – Pervious (mm)	Minimum Infiltration Rate (mm/hr)	Maximum Infiltration Rate (mm/hr)
SE-S08_1	Organics	0.8216	75.0	20	40	0.02	0.5	2.5	5	54.2	10.5
SE-S08_2	Organics	1.2252	75.0	20	40	0.02	0.5	2.5	5	54.2	10.5
SE-SPond	Natural	0.45	166.0	0.05	100	0.01	0.1	0.05	0.05	66.51	10.88
SPit1	Pit	29.2068	290.0	30	80	0.02	0.024	2.5	5	25.4	3.3
SPit2	Pit	40.1023	290.0	30	80	0.02	0.024	2.5	5	25.4	3.3
SPit2-S01	HaulRd	3.3549	60.0	2.573	80	0.02	0.8	2.5	10	66.56	10.88
SPit2-S02	HaulRd	1.7898	45.0	2.035	80	0.02	0.8	2.5	10	66.56	10.88
SW-S01	Organics	0.4714	21.0	20	40	0.02	0.5	2.5	5	54.2	10.5
SW-S02	Organics	0.3677	21.0	20	40	0.02	0.5	2.5	5	54.2	10.5
SW-S04_2	Natural	1.9479	697.3	2.573	0	0.04	0.8	0.05	10	66.56	10.88
SW-S08	Till	4.5269	140.1	20	40	0.02	0.5	2.5	5	54.2	10.5
SW-S09	Till	1.8537	140.8	20	40	0.02	0.5	2.5	5	54.2	10.5
SW-S10	Till	3.5904	101.5	20	40	0.02	0.5	2.5	5	54.2	10.5
SW-S11	Organics	1.047	60.0	20	40	0.02	0.5	2.5	5	54.2	10.5
SW-S13	Organics	0.8041	30.0	20	40	0.02	0.5	2.5	5	54.2	10.5
SW-S14	Organics	1.2291	30.0	20	40	0.02	0.5	2.5	5	54.2	10.5
SW-SPond	Natural	0.4	140.9	0.05	100	0.01	0.1	0.05	0.05	66.56	10.88
TMF-S01	TMF	106.2128	500.0	0.05	100	0.01	0.1	0.05	0.05	75.997	12.7
TMF-S02	TMF	1.3035	50.0	0.05	100	0.01	0.1	0.05	0.05	75.997	12.7
TMF-S03_10	TMF	2.101	98.0	50	0	0.01	0.24	0.05	10	67.6	10.92
TMF-S03_11	TMF	3.3103	87.0	50	0	0.01	0.24	0.05	10	67.6	10.92
TMF-S03_12	TMF	1.9936	91.0	50	0	0.01	0.24	0.05	10	67.6	10.92
TMF-S03_13	TMF	0.8594	56.0	50	0	0.01	0.24	0.05	10	67.6	10.92
TMF-S03_14	TMF	1.5118	67.0	50	0	0.01	0.24	0.05	10	67.6	10.92
TMF-S03_15	TMF	1.6867	60.5	50	0	0.01	0.24	0.05	10	67.6	10.92
TMF-S03_2	TMF	0.863	37.0	50	0	0.01	0.24	0.05	10	67.6	10.92
TMF-S03_3	TMF	3.8254	128.0	50	0	0.01	0.24	0.05	10	67.6	10.92
TMF-S03_4	TMF	0.903	29.0	50	0	0.01	0.24	0.05	10	67.6	10.92
TMF-S03_5	TMF	3.099	75.0	50	0	0.01	0.24	0.05	10	67.6	10.92

Subcatchment	Tag	Area (ha)	Flow Length (m)	Slope (%)	Percent Impervious (%)	Manning's n Impervious	Manning's n Pervious	Depression Storage – Impervious (mm)	Depression Storage – Pervious (mm)	Minimum Infiltration Rate (mm/hr)	Maximum Infiltration Rate (mm/hr)
TMF-S03_6	TMF	2.0143	121.0	50	0	0.01	0.24	0.05	10	67.6	10.92
TMF-S03_7	TMF	1.142	36.0	50	0	0.01	0.24	0.05	10	67.6	10.92
TMF-S03_8	TMF	3.6405	121.0	50	0	0.01	0.24	0.05	10	67.6	10.92
TMF-S03_9	TMF	1.4369	86.0	50	0	0.01	0.24	0.05	10	67.6	10.92
TMF-S04_1	Organics	2.968	88.0	20	40	0.02	0.5	2.5	5	54.2	10.5
TMF-S04_2	Organics	5.0264	95.0	20	40	0.02	0.5	2.5	5	54.2	10.5

Attachment 2

Model Schematic

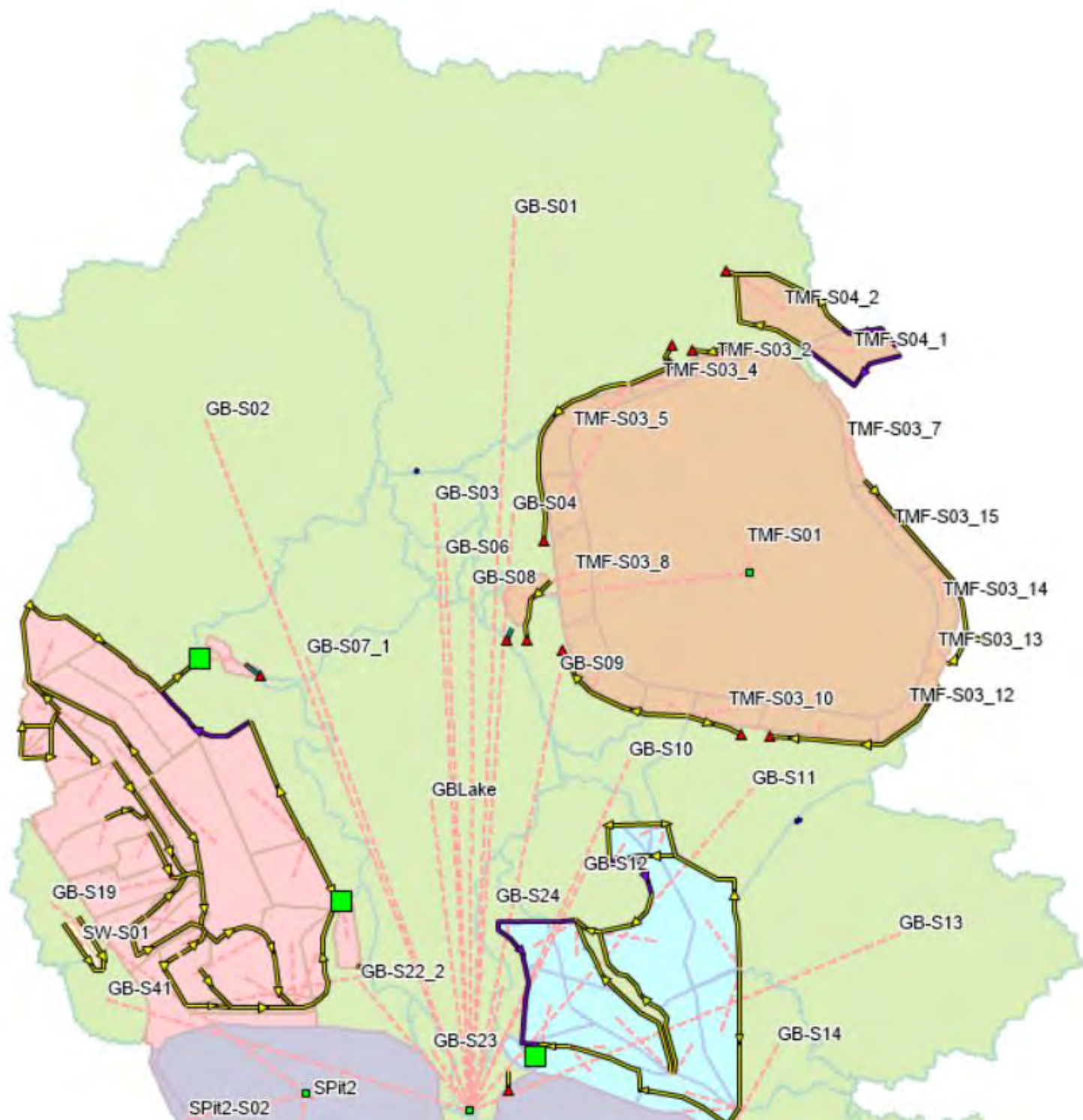


Figure 1 Gold Brook Lake and TMF Subcatchments

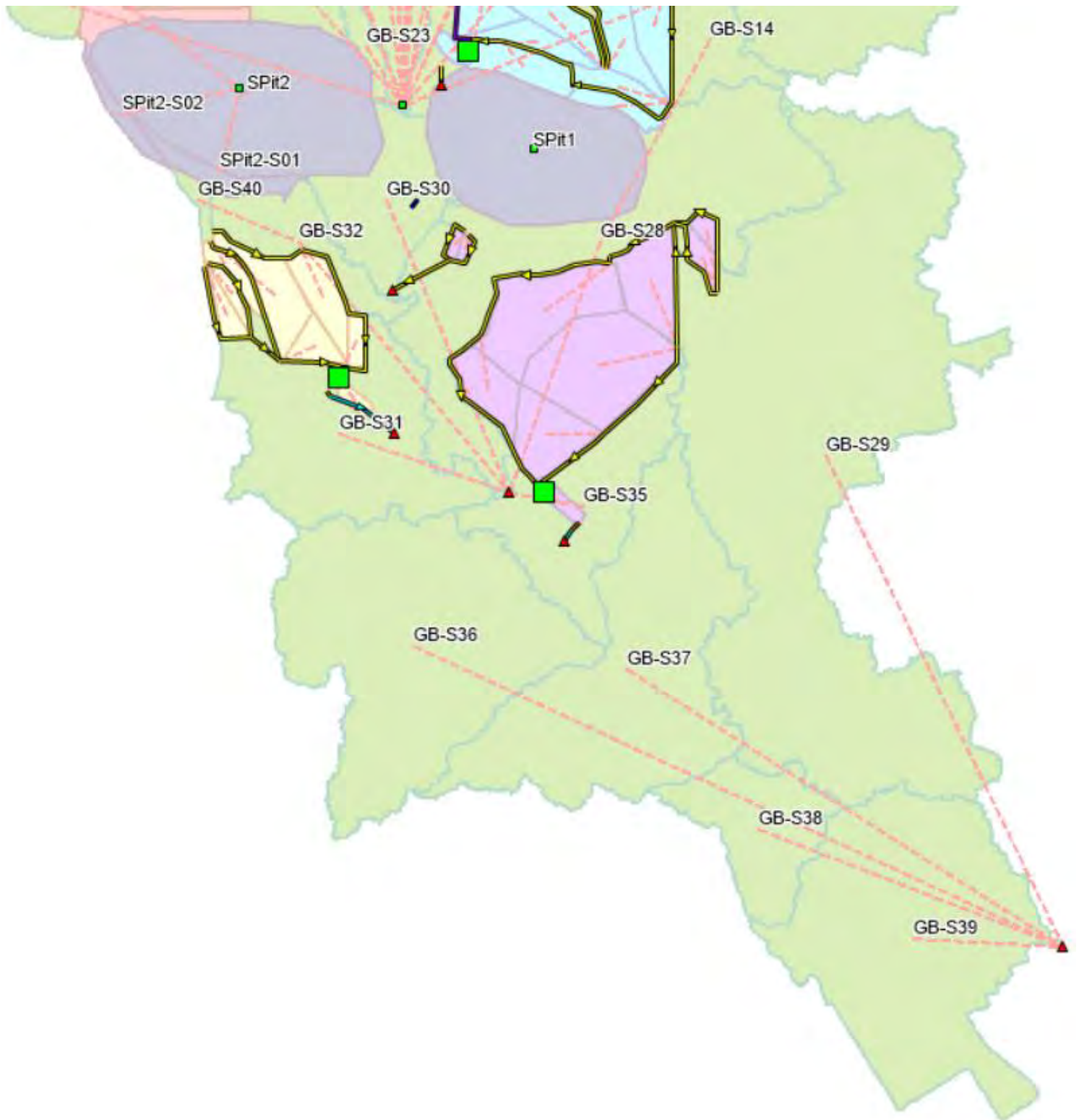


Figure 2 West Pit, East Pit, and Gold Brook Subcatchments

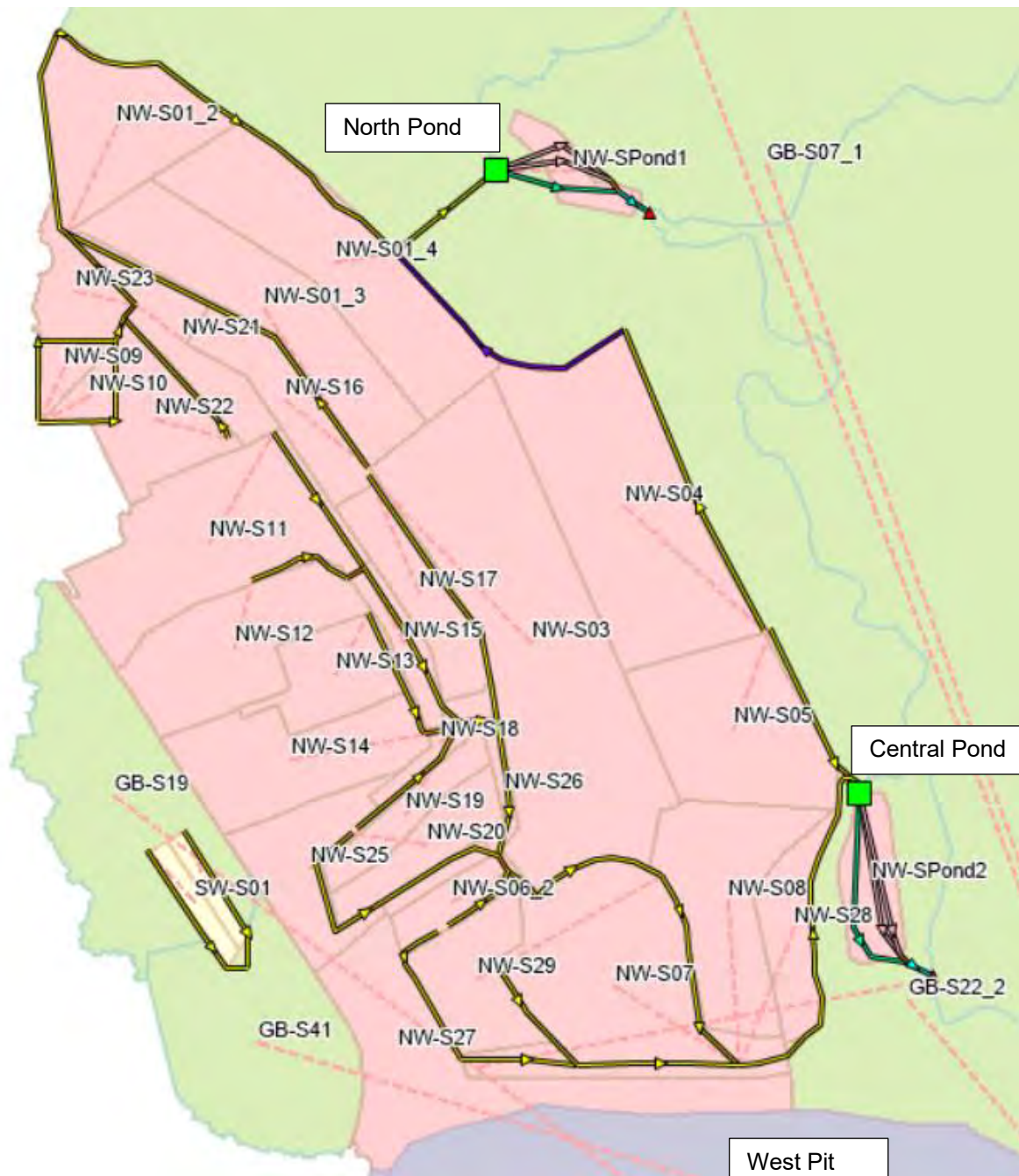


Figure 3 Northwest Subcatchments

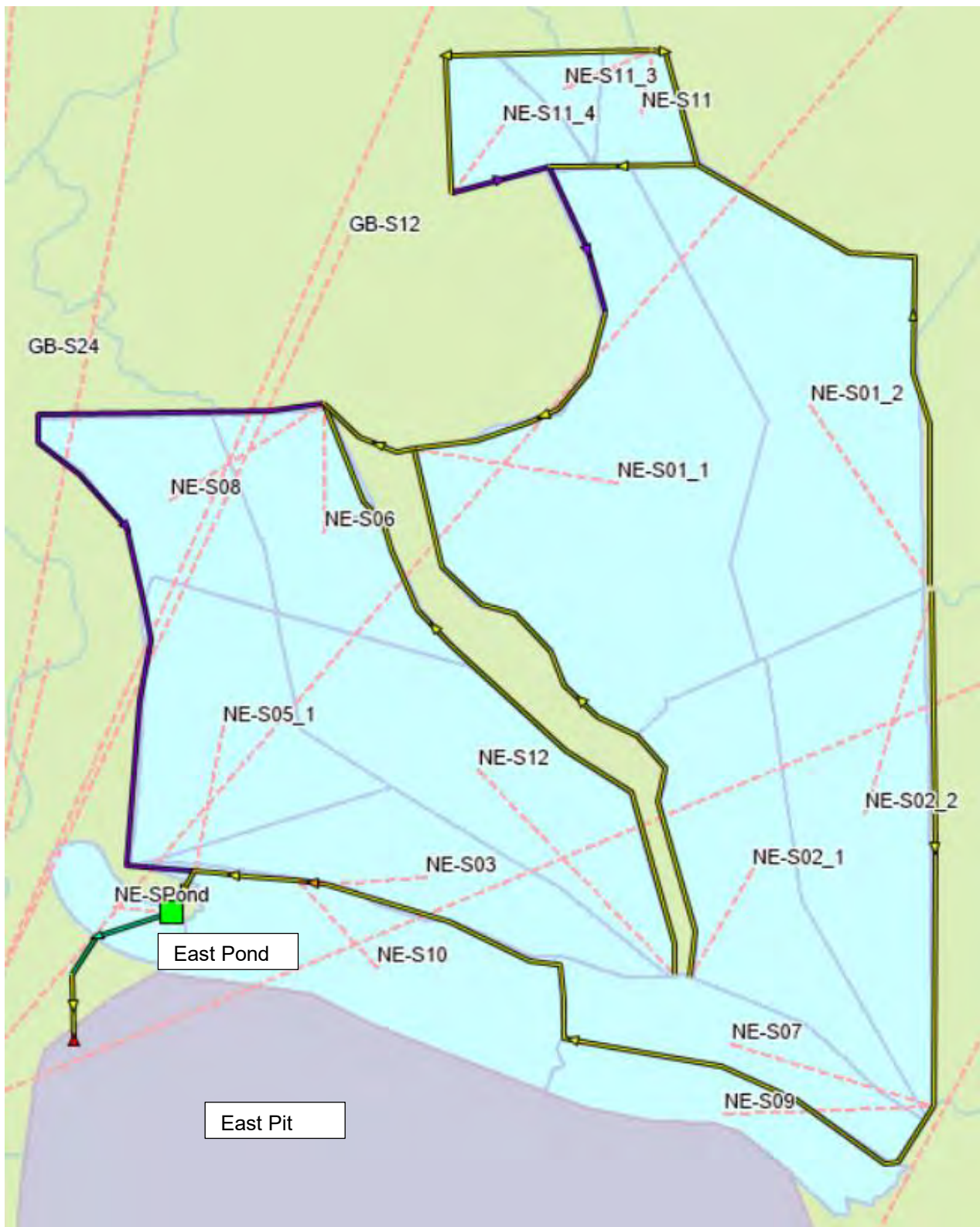


Figure 4 Northeast Subcatchments

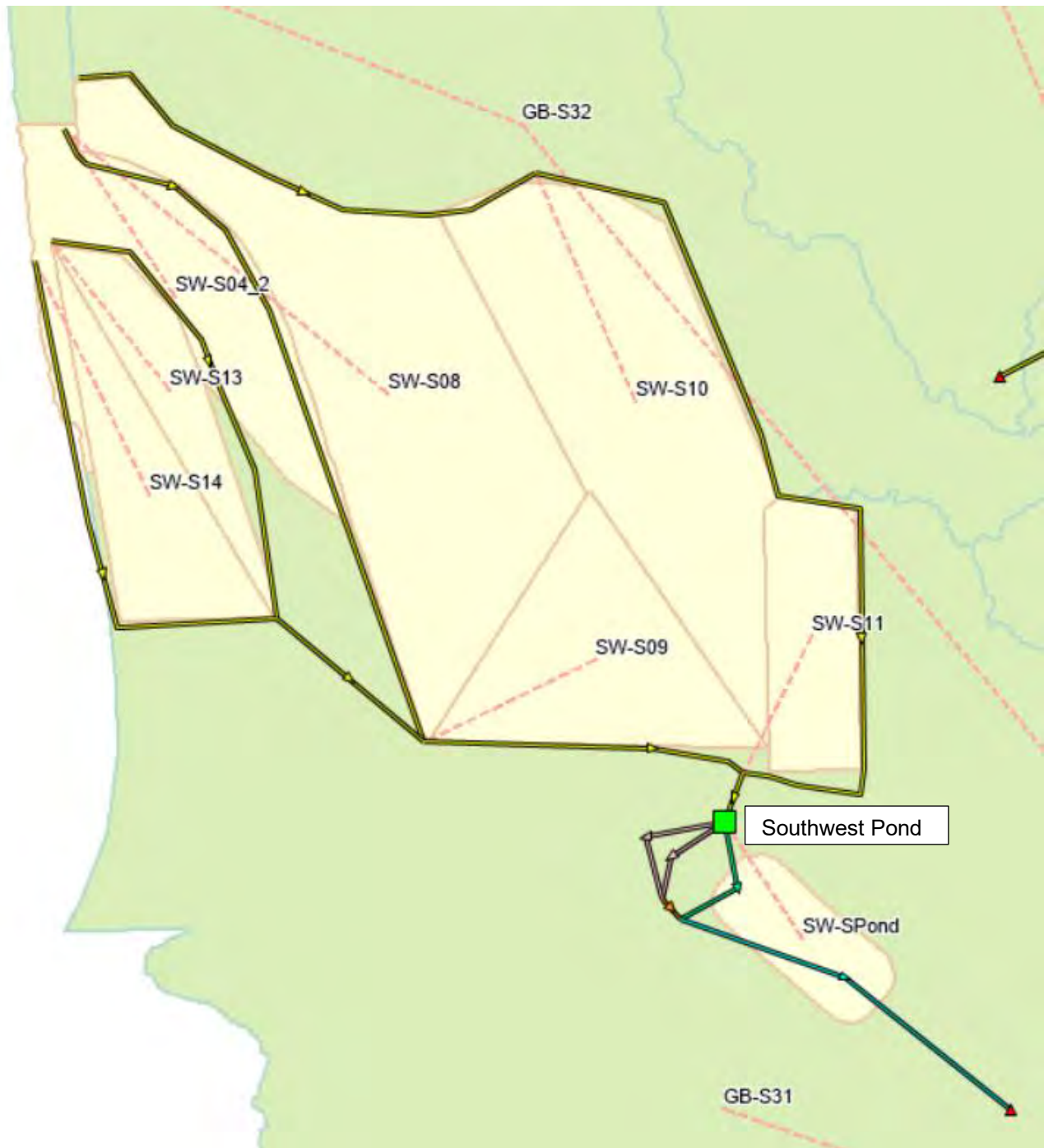


Figure 5 Southwest Subcatchments

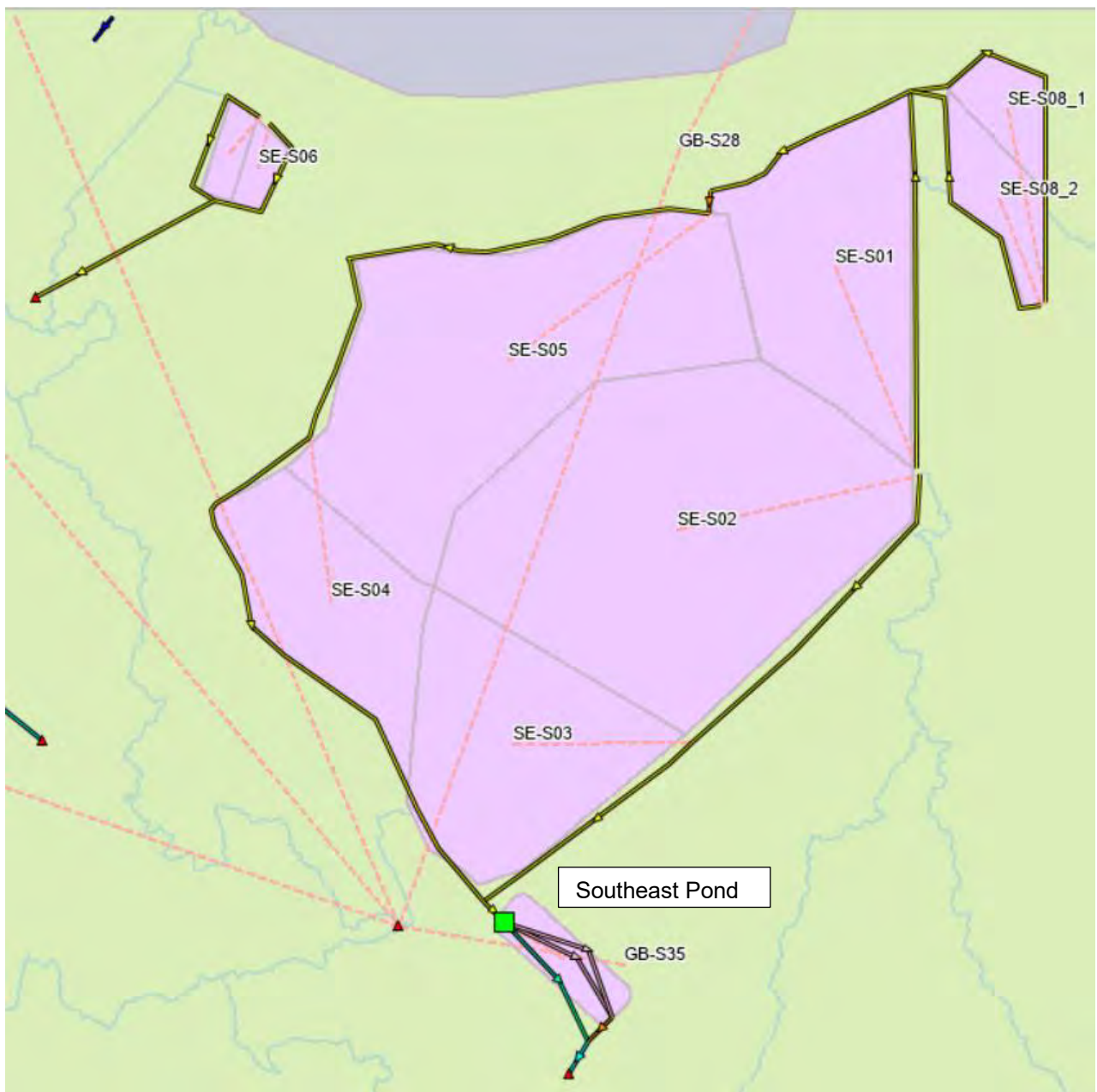


Figure 6 Southeast Subcatchments

Attachment 3

Model Output – 100-year Design Event

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.015)

Hydrologic Model in support of Goldboro Mine Water Infrastructure Environmental Assessment

Element Count

Number of rain gages 27
 Number of subcatchments ... 119
 Number of nodes 143
 Number of links 123
 Number of pollutants 0
 Number of land uses 0

Raingage Summary

Name	Data Source	Data Type	Recording Interval
002yrCC-SCSII_78.43mm	002yrCC-SCSII_78.43mm	INTENSITY	6 min.
002yr-SCSII_74.69mm	002yr-SCSII_74.69mm	INTENSITY	6 min.
005yrCC-SCSII_98.36mm	005yrCC-SCSII_98.36mm	INTENSITY	6 min.
005yr-SCSII_93.68mm	005yr-SCSII_93.68mm	INTENSITY	6 min.
010yrCC-SCSII_111.53mm	010yrCC-SCSII_111.53mm	INTENSITY	6 min.
010yr-SCSII_106.22mm	010yr-SCSII_106.22mm	INTENSITY	6 min.
025yrCC-SCSII_127.19mm	025yrCC-SCSII_127.19mm	INTENSITY	6 min.
050yrCC-SCSII_140.24mm	050yrCC-SCSII_140.24mm	INTENSITY	6 min.
050yr-SCSII_133.57mm	050yr-SCSII_133.57mm	INTENSITY	6 min.
100yr_SCS_Type_III_145.8mm	100yr_SCS_Type_III_145.8mm	INTENSITY	6 min.
100yrCC_SCS_Type_III_153.1mm	100yrCC_SCS_Type_III_153.1mm	INTENSITY	6 min.
100yrCC-SCSII_153.06mm	100yrCC-SCSII_153.06mm	INTENSITY	6 min.
100yr-SCSII_145.77mm	100yr-SCSII_145.77mm	INTENSITY	6 min.
10yr_SCS_Type_III_106.2mm	10yr_SCS_Type_III_106.2mm	INTENSITY	6 min.
10yrCC_SCS_Type_III_111.5mm	10yrCC_SCS_Type_III_111.5mm	INTENSITY	6 min.
25yr_SCS_Type_III_121.1mm	25yr_SCS_Type_III_121.1mm	INTENSITY	6 min.
25yrCC_SCS_Type_III_127.2mm	25yrCC_SCS_Type_III_127.2mm	INTENSITY	6 min.

2yr_SCS_Type_III_74.7mm 2yr_SCS_Type_III_74.7mm INTENSITY 6 min.
 2yrCC_SCS_Type_III_78.4mm 2yrCC_SCS_Type_III_78.4mm INTENSITY 6 min.
 50yr_SCS_Type_III_133.6mm 50yr_SCS_Type_III_133.6mm INTENSITY 6 min.
 50yrCC_SCS_Type_III_140.2mm 50yrCC_SCS_Type_III_140.2mm INTENSITY 6 min.
 5yr_SCS_Type_III_93.68mm 5yr_SCS_Type_III_93.68mm INTENSITY 6 min.
 5yrCC_SCS_Type_III_98.36mm 5yrCC_SCS_Type_III_98.36mm INTENSITY 6 min.
 Chicago_4h_25mm Chicago_4h_25mm INTENSITY 5 min.
 Hourly2011Precipitation Hourly2011Precipitation CUMULATIVE 60 min.
 HurricaneBeth_SCS_Type_II_296.4mm HurricaneBeth_SCS_Type_II_296.4mm INTENSITY 30 min.
 HurricaneBethConsecutive_SCSII HurricaneBethConsecutive_SCSII INTENSITY 6 min.

Subcatchment Summary

Name	Area	Width	%Imperv	%Slope	Rain Gage	Outlet
GBLake	79.61	468.31	100.00	0.0500	100yrCC-SCSII_153.06mm	GoldBrookLake
GB-S01	193.33	1769.55	3.01	3.5030	100yrCC-SCSII_153.06mm	GoldBrookLake
GB-S02	130.27	1251.06	0.00	3.2000	100yrCC-SCSII_153.06mm	GoldBrookLake
GB-S03	5.92	54.24	3.00	3.5010	100yrCC-SCSII_153.06mm	GoldBrookLake
GB-S04	11.13	163.79	1.00	5.2500	100yrCC-SCSII_153.06mm	GoldBrookLake
GB-S06	3.53	163.14	8.00	2.0000	100yrCC-SCSII_153.06mm	GoldBrookLake
GB-S07_1	40.84	1059.99	3.00	2.0000	100yrCC-SCSII_153.06mm	GoldBrookLake
GB-S08	1.01	14.91	1.00	5.2500	100yrCC-SCSII_153.06mm	GoldBrookLake
GB-S09	11.65	118.64	4.00	3.7000	100yrCC-SCSII_153.06mm	GoldBrookLake
GB-S10	6.70	144.73	3.00	5.0000	100yrCC-SCSII_153.06mm	GoldBrookLake
GB-S11	26.40	178.48	6.00	4.4860	100yrCC-SCSII_153.06mm	GoldBrookLake
GB-S12	19.88	349.37	1.00	3.7500	100yrCC-SCSII_153.06mm	GoldBrookLake
GB-S13	75.08	507.58	6.00	4.4860	100yrCC-SCSII_153.06mm	GoldBrookLake
GB-S14	10.04	445.38	0.00	2.1000	100yrCC-SCSII_153.06mm	GB-S28
GB-S19	7.09	281.72	0.00	4.4690	100yrCC-SCSII_153.06mm	NW-Pit
GB-S22_2	7.92	386.38	0.00	7.5140	100yrCC-SCSII_153.06mm	GoldBrookLake
GB-S23	2.31	345.10	0.00	14.8190	100yrCC-SCSII_153.06mm	GoldBrookLake
GB-S24	8.96	663.73	10.00	3.9950	100yrCC-SCSII_153.06mm	GoldBrookLake
GB-S28	53.41	505.81	0.00	2.0660	100yrCC-SCSII_153.06mm	GB-OF
GB-S29	146.31	788.41	0.00	2.6520	100yrCC-SCSII_153.06mm	GB-OF2
GB-S30	15.58	769.55	0.00	3.2040	100yrCC-SCSII_153.06mm	GB-OF
GB-S31	39.28	696.32	0.00	2.5750	100yrCC-SCSII_153.06mm	GB-OF
GB-S32	10.48	150.31	0.00	2.5730	100yrCC-SCSII_153.06mm	GB-OF
GB-S35	24.65	634.63	0.00	4.5150	100yrCC-SCSII_153.06mm	GB-OF

GB-S36	66.31	1461.69	0.00	3.5480	100yrCC-SCSII_153.06mm	GB-OF2
GB-S37	56.47	864.51	0.00	4.3990	100yrCC-SCSII_153.06mm	GB-OF2
GB-S38	17.30	878.92	0.00	5.8220	100yrCC-SCSII_153.06mm	GB-OF2
GB-S39	62.86	1365.27	20.00	2.6050	100yrCC-SCSII_153.06mm	GB-OF2
GB-S40	1.31	18.84	0.00	2.5730	100yrCC-SCSII_153.06mm	GB-S32
GB-S41	6.17	560.94	0.00	4.4690	100yrCC-SCSII_153.06mm	GoldBrookLake
NE-S01_1	8.55	339.55	6.00	20.0000	100yrCC-SCSII_153.06mm	NE-013
NE-S01_2	6.39	253.78	6.00	20.0000	100yrCC-SCSII_153.06mm	NE-007
NE-S02_1	3.65	148.68	6.00	20.0000	100yrCC-SCSII_153.06mm	NE-012
NE-S02_2	4.49	182.79	6.00	20.0000	100yrCC-SCSII_153.06mm	NE-001
NE-S03	2.68	262.47	40.00	20.0000	100yrCC-SCSII_153.06mm	NE-003
NE-S05_1	3.33	166.75	40.00	20.0000	100yrCC-SCSII_153.06mm	NE-005
NE-S06	2.39	316.28	40.00	20.0000	100yrCC-SCSII_153.06mm	NE-006
NE-S07	2.11	339.20	40.00	20.0000	100yrCC-SCSII_153.06mm	NE-002
NE-S08	2.10	218.79	40.00	20.0000	100yrCC-SCSII_153.06mm	NE-006
NE-S09	1.82	55.96	0.00	1.7000	100yrCC-SCSII_153.06mm	NE-002
NE-S10	3.75	104.05	0.00	1.9000	100yrCC-SCSII_153.06mm	NE-004
NE-S11	0.77	85.09	40.00	20.0000	100yrCC-SCSII_153.06mm	NE-015
NE-S11_3	0.47	52.37	40.00	20.0000	100yrCC-SCSII_153.06mm	NE-017
NE-S11_4	1.04	115.17	40.00	20.0000	100yrCC-SCSII_153.06mm	NE-019
NE-S12	4.27	290.74	40.00	20.0000	100yrCC-SCSII_153.06mm	NE-011
NE-SPond	0.56	38.22	100.00	0.0500	100yrCC-SCSII_153.06mm	NE-Pond
NW-S01_2	3.56	118.76	6.00	20.0000	100yrCC-SCSII_153.06mm	NW-002
NW-S01_3	4.58	183.20	6.00	20.0000	100yrCC-SCSII_153.06mm	NW-001
NW-S01_4	5.49	219.63	6.00	20.0000	100yrCC-SCSII_153.06mm	NW-031
NW-S03	11.16	694.93	6.00	20.0000	100yrCC-SCSII_153.06mm	NW-011
NW-S04	7.47	430.06	6.00	20.0000	100yrCC-SCSII_153.06mm	NW-010
NW-S05	4.28	246.42	6.00	20.0000	100yrCC-SCSII_153.06mm	NW-026
NW-S06_2	0.94	85.43	10.00	4.0000	100yrCC-SCSII_153.06mm	NW-023
NW-S07	6.83	674.70	0.00	4.0000	100yrCC-SCSII_153.06mm	NW-025
NW-S08	3.82	231.06	6.00	20.0000	100yrCC-SCSII_153.06mm	NW-025
NW-S09	0.51	93.47	40.00	20.0000	100yrCC-SCSII_153.06mm	NW-005
NW-S10	0.51	93.16	40.00	20.0000	100yrCC-SCSII_153.06mm	NW-004
NW-S11	5.64	298.56	50.00	1.0000	100yrCC-SCSII_153.06mm	NW-012
NW-S12	3.77	206.91	50.00	1.0000	100yrCC-SCSII_153.06mm	NW-015
NW-S13	1.82	60.72	40.00	1.0000	100yrCC-SCSII_153.06mm	NW-019
NW-S14	3.54	321.90	80.00	1.0000	100yrCC-SCSII_153.06mm	NW-020
NW-S15	0.87	216.63	50.00	2.0000	100yrCC-SCSII_153.06mm	NW-017
NW-S16	2.03	290.63	40.00	20.0000	100yrCC-SCSII_153.06mm	NW-001
NW-S17	2.00	370.00	40.00	20.0000	100yrCC-SCSII_153.06mm	NW-011
NW-S18	0.69	92.49	50.00	2.0000	100yrCC-SCSII_153.06mm	NW-036

NW-S19	1.15	287.40	40.00	20.0000	100yrCC-SCSII_153.06mm	NW-036
NW-S20	1.47	327.67	40.00	20.0000	100yrCC-SCSII_153.06mm	NW-035
NW-S21	1.90	270.87	30.00	2.7140	100yrCC-SCSII_153.06mm	NW-008
NW-S22	2.25	173.21	30.00	1.5000	100yrCC-SCSII_153.06mm	NW-003
NW-S23	1.30	108.68	10.00	2.7140	100yrCC-SCSII_153.06mm	NW-008
NW-S25	2.41	241.34	50.00	2.0000	100yrCC-SCSII_153.06mm	NW-035
NW-S26	0.74	37.16	10.00	3.0000	100yrCC-SCSII_153.06mm	NW-022
NW-S27	5.47	218.80	30.00	3.0000	100yrCC-SCSII_153.06mm	NW-0F3
NW-S28	1.69	338.80	6.00	20.0000	100yrCC-SCSII_153.06mm	NW-025
NW-S29	2.16	270.20	40.00	20.0000	100yrCC-SCSII_153.06mm	NW-029
NW-SPond1	0.78	223.77	70.00	0.0500	100yrCC-SCSII_153.06mm	NW-Pond1
NW-SPond2	0.94	235.00	70.00	0.0500	100yrCC-SCSII_153.06mm	NW-Pond2
SE-S01	5.39	318.25	6.00	20.0000	100yrCC-SCSII_153.06mm	SE-001
SE-S02	12.86	703.73	6.00	20.0000	100yrCC-SCSII_153.06mm	SE-005
SE-S03	5.38	202.09	6.00	20.0000	100yrCC-SCSII_153.06mm	SE-006
SE-S04	3.80	197.00	6.00	20.0000	100yrCC-SCSII_153.06mm	SE-007
SE-S05	10.10	483.56	6.00	20.0000	100yrCC-SCSII_153.06mm	SE-003
SE-S06	0.32	91.69	40.00	20.0000	100yrCC-SCSII_153.06mm	SE-011
SE-S07	0.33	94.86	40.00	20.0000	100yrCC-SCSII_153.06mm	SE-010
SE-S08_1	0.82	109.55	40.00	20.0000	100yrCC-SCSII_153.06mm	SE-012
SE-S08_2	1.23	163.36	40.00	20.0000	100yrCC-SCSII_153.06mm	SE-015
SE-SPond	0.45	27.11	100.00	0.0500	100yrCC-SCSII_153.06mm	SE-Pond
SPit1	29.21	1007.13	80.00	30.0000	100yrCC-SCSII_153.06mm	NE-Pit
SPit2	40.10	1382.84	80.00	30.0000	100yrCC-SCSII_153.06mm	NW-Pit
SPit2-S01	3.35	559.15	80.00	2.5730	100yrCC-SCSII_153.06mm	NW-Pit
SPit2-S02	1.79	397.73	80.00	2.0350	100yrCC-SCSII_153.06mm	NW-Pit
SW-S01	0.47	224.48	40.00	20.0000	100yrCC-SCSII_153.06mm	SW-002
SW-S02	0.37	175.09	40.00	20.0000	100yrCC-SCSII_153.06mm	SW-001
SW-S04_2	1.95	27.93	0.00	2.5730	100yrCC-SCSII_153.06mm	SW-011
SW-S08	4.53	323.11	40.00	20.0000	100yrCC-SCSII_153.06mm	SW-011
SW-S09	1.85	131.66	40.00	20.0000	100yrCC-SCSII_153.06mm	SW-012
SW-S10	3.59	353.67	40.00	20.0000	100yrCC-SCSII_153.06mm	SW-009
SW-S11	1.05	174.50	40.00	20.0000	100yrCC-SCSII_153.06mm	SW-010
SW-S13	0.80	268.03	40.00	20.0000	100yrCC-SCSII_153.06mm	SW-013
SW-S14	1.23	409.70	40.00	20.0000	100yrCC-SCSII_153.06mm	SW-014
SW-SPond	0.40	28.39	100.00	0.0500	100yrCC-SCSII_153.06mm	SW-Pond
TMF-S01	106.21	2124.26	100.00	0.0500	100yrCC-SCSII_153.06mm	TMF_Storage
TMF-S02	1.30	260.70	100.00	0.0500	100yrCC-SCSII_153.06mm	TMF_Storage
TMF-S03_10	2.10	214.39	0.00	50.0000	100yrCC-SCSII_153.06mm	TMF-016
TMF-S03_11	3.31	380.49	0.00	50.0000	100yrCC-SCSII_153.06mm	TMF-012
TMF-S03_12	1.99	219.08	0.00	50.0000	100yrCC-SCSII_153.06mm	TMF-017

TMF-S03_13	0.86	153.46	0.00	50.0000	100yrCC-SCSII_153.06mm	TMF-009
TMF-S03_14	1.51	225.64	0.00	50.0000	100yrCC-SCSII_153.06mm	TMF-019
TMF-S03_15	1.69	278.79	0.00	50.0000	100yrCC-SCSII_153.06mm	TMF-008
TMF-S03_2	0.86	233.24	0.00	50.0000	100yrCC-SCSII_153.06mm	TMF-001
TMF-S03_3	3.83	298.86	0.00	50.0000	100yrCC-SCSII_153.06mm	TMF-006
TMF-S03_4	0.90	311.38	0.00	50.0000	100yrCC-SCSII_153.06mm	TMF-003
TMF-S03_5	3.10	413.20	0.00	50.0000	100yrCC-SCSII_153.06mm	TMF-018
TMF-S03_6	2.01	166.47	0.00	50.0000	100yrCC-SCSII_153.06mm	TMF-018
TMF-S03_7	1.14	317.22	0.00	50.0000	100yrCC-SCSII_153.06mm	TMF-008
TMF-S03_8	3.64	300.87	0.00	50.0000	100yrCC-SCSII_153.06mm	TMF-005
TMF-S03_9	1.44	167.08	0.00	50.0000	100yrCC-SCSII_153.06mm	TMF-015
TMF-S04_1	2.97	337.27	40.00	20.0000	100yrCC-SCSII_153.06mm	TMF-020
TMF-S04_2	5.03	529.10	40.00	20.0000	100yrCC-SCSII_153.06mm	TMF-021

Node Summary

Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
GB-002	JUNCTION	63.11	5.00	0.0	
GB-003	JUNCTION	58.81	5.00	0.0	
GB-007	JUNCTION	69.29	1.00	500.0	
GB-008	JUNCTION	69.63	1.00	0.0	
GB-009	JUNCTION	68.98	2.00	0.0	
GB-013	JUNCTION	48.45	2.00	0.0	
GB-014	JUNCTION	48.05	2.00	0.0	
J1	JUNCTION	76.76	0.50	0.0	
J3	JUNCTION	102.87	0.00	0.0	
NE-001	JUNCTION	80.98	0.60	0.0	
NE-002	JUNCTION	71.50	1.00	0.0	
NE-003	JUNCTION	60.06	1.00	0.0	
NE-004	JUNCTION	59.54	0.90	0.0	
NE-005	JUNCTION	57.97	1.00	0.0	Yes
NE-006	JUNCTION	56.77	1.00	0.0	
NE-007	JUNCTION	81.00	1.00	0.0	
NE-010	JUNCTION	53.25	0.75	0.0	
NE-011	JUNCTION	68.27	1.00	0.0	
NE-012	JUNCTION	69.29	1.00	0.0	
NE-013	JUNCTION	61.51	1.00	0.0	

NE-015	JUNCTION	70.24	0.50	0.0	
NE-017	JUNCTION	70.30	0.50	0.0	
NE-019	JUNCTION	60.27	0.50	0.0	
NE-020	JUNCTION	67.32	0.00	0.0	
NE-021	JUNCTION	68.75	1.00	0.0	
NE-022	JUNCTION	66.85	1.00	0.0	
NE-023	JUNCTION	70.86	1.00	0.0	
NW-001	JUNCTION	89.35	1.00	0.0	
NW-002	JUNCTION	86.75	1.00	0.0	
NW-003	JUNCTION	91.75	0.80	0.0	
NW-004	JUNCTION	92.54	0.50	0.0	
NW-005	JUNCTION	92.92	0.50	0.0	
NW-006	JUNCTION	91.19	0.50	0.0	
NW-007	JUNCTION	90.12	0.80	0.0	
NW-008	JUNCTION	89.66	0.70	0.0	
NW-009	JUNCTION	73.49	1.00	0.0	
NW-010	JUNCTION	64.77	1.00	0.0	
NW-011	JUNCTION	89.30	1.00	0.0	
NW-012	JUNCTION	89.69	0.75	0.0	
NW-013	JUNCTION	84.44	1.50	0.0	
NW-015	JUNCTION	91.92	0.80	0.0	
NW-016	JUNCTION	88.63	0.80	0.0	
NW-017	JUNCTION	88.48	0.80	0.0	
NW-019	JUNCTION	89.09	0.60	0.0	
NW-020	JUNCTION	87.90	0.60	800.0	
NW-021	JUNCTION	87.58	1.00	0.0	
NW-022	JUNCTION	82.46	2.10	0.0	
NW-023	JUNCTION	82.14	2.10	0.0	
NW-024	JUNCTION	78.89	1.50	0.0	
NW-025	JUNCTION	67.48	1.20	0.0	
NW-026	JUNCTION	64.80	1.00	0.0	
NW-027	JUNCTION	60.50	1.20	0.0	Yes
NW-028	JUNCTION	57.00	3.00	15545.0	
NW-029	JUNCTION	79.89	1.50	0.0	
NW-030	JUNCTION	54.50	0.70	0.0	
NW-031	JUNCTION	71.14	1.00	0.0	Yes
NW-032	JUNCTION	54.00	2.50	9520.0	
NW-033	JUNCTION	54.03	0.90	0.0	
NW-034	JUNCTION	57.72	1.00	0.0	
NW-035	JUNCTION	87.22	1.00	0.0	
NW-036	JUNCTION	87.58	1.00	0.0	

NW-037	JUNCTION	88.02	0.75	0.0	
NW-040	JUNCTION	82.78	1.00	0.0	
NW-041	JUNCTION	82.57	0.50	0.0	
NW-042	JUNCTION	70.63	1.00	0.0	
NW-043	JUNCTION	80.41	0.50	0.0	
SE-001	JUNCTION	74.04	0.70	0.0	
SE-002	JUNCTION	66.72	0.90	0.0	
SE-003	JUNCTION	66.47	1.00	0.0	
SE-004	JUNCTION	40.70	1.00	0.0	Yes
SE-005	JUNCTION	74.04	1.00	0.0	
SE-006	JUNCTION	61.93	1.00	0.0	
SE-007	JUNCTION	46.17	1.00	0.0	
SE-008	JUNCTION	37.00	4.00	8695.0	
SE-009	JUNCTION	37.80	0.90	0.0	
SE-010	JUNCTION	51.13	0.50	0.0	
SE-011	JUNCTION	50.58	0.50	0.0	
SE-012	JUNCTION	71.63	0.50	0.0	
SE-013	JUNCTION	45.72	0.50	0.0	
SE-014	JUNCTION	69.00	0.80	0.0	
SE-015	JUNCTION	69.55	0.60	0.0	
SW-001	JUNCTION	86.51	0.50	0.0	
SW-002	JUNCTION	85.43	0.50	0.0	
SW-003	JUNCTION	83.85	0.70	0.0	
SW-008	JUNCTION	60.50	0.90	0.0	
SW-009	JUNCTION	51.97	0.90	0.0	
SW-010	JUNCTION	46.70	0.90	0.0	Yes
SW-011	JUNCTION	60.74	0.60	0.0	
SW-012	JUNCTION	51.05	0.90	0.0	
SW-013	JUNCTION	60.58	0.30	0.0	
SW-014	JUNCTION	60.67	0.50	0.0	
SW-015	JUNCTION	53.56	0.50	0.0	
SW-016	JUNCTION	42.70	3.25	7679.0	
SW-017	JUNCTION	43.01	0.75	0.0	
TMF_PondOutlet	JUNCTION	51.46	1.00	0.0	
TMF-001	JUNCTION	102.02	0.50	0.0	
TMF-003	JUNCTION	98.33	0.50	0.0	
TMF-004	JUNCTION	57.43	0.50	0.0	
TMF-005	JUNCTION	59.59	0.50	0.0	
TMF-006	JUNCTION	63.02	0.50	0.0	
TMF-008	JUNCTION	96.82	0.50	0.0	
TMF-009	JUNCTION	86.52	0.50	0.0	

TMF-010	JUNCTION	83.03	0.50	0.0	
TMF-011	JUNCTION	85.87	0.50	0.0	
TMF-012	JUNCTION	74.30	0.50	0.0	
TMF-013	JUNCTION	72.20	0.50	0.0	
TMF-015	JUNCTION	75.96	0.50	0.0	
TMF-016	JUNCTION	76.53	0.50	0.0	
TMF-017	JUNCTION	85.33	0.50	0.0	
TMF-018	JUNCTION	98.53	0.50	0.0	
TMF-019	JUNCTION	92.04	0.50	0.0	
TMF-020	JUNCTION	111.70	0.50	0.0	
TMF-021	JUNCTION	102.47	0.50	0.0	
TMF-022	JUNCTION	108.43	0.50	0.0	
TMF-024	JUNCTION	104.17	0.00	0.0	
GB-OF	OUTFALL	35.52	0.00	0.0	
GB-OF2	OUTFALL	30.27	0.00	0.0	
NE-OF1	OUTFALL	50.80	0.75	0.0	
NW-OF1	OUTFALL	51.21	0.50	0.0	
NW-OF2	OUTFALL	50.80	0.50	0.0	
NW-OF3	OUTFALL	50.80	0.00	0.0	
OF2	OUTFALL	101.82	0.50	0.0	
SE-OF1	OUTFALL	36.21	0.50	0.0	
SE-OF2	OUTFALL	43.33	0.50	0.0	
SW-OF1	OUTFALL	39.00	0.50	0.0	
TMF-OF01	OUTFALL	51.16	1.00	0.0	
TMF-OF02	OUTFALL	57.31	0.50	0.0	
TMF-OF03	OUTFALL	55.51	0.50	0.0	
TMF-OF04	OUTFALL	71.56	0.50	0.0	
TMF-OF05	OUTFALL	73.86	0.50	0.0	
TMF-OF07	OUTFALL	84.70	0.50	0.0	
TMF-OF09	OUTFALL	94.25	0.50	0.0	
TMF-OF10	OUTFALL	95.40	0.50	0.0	
TMF-OF11	OUTFALL	59.76	0.50	0.0	
GoldBrookLake	STORAGE	49.06	1.74	0.0	
NE-Pit	STORAGE	-100.00	10.00	0.0	Yes
NE-Pond	STORAGE	53.25	4.25	0.0	Yes
NW-Pit	STORAGE	-100.00	10.00	0.0	Yes
NW-Pond1	STORAGE	54.00	3.50	0.0	
NW-Pond2	STORAGE	57.00	3.50	0.0	Yes
SE-Pond	STORAGE	37.00	4.00	0.0	
SW-Pond	STORAGE	42.70	3.75	0.0	
TMF_Storage	STORAGE	52.60	50.00	0.0	

Link Summary

Name	From Node	To Node	Type	Length	%Slope	Roughness
GB-02	GB-002	GB-003	CONDUIT	18.6	23.6839	0.0240
GB-07	GB-007	GB-009	CONDUIT	19.7	1.5549	0.0240
GB-08	GB-008	GB-009	CONDUIT	18.4	3.5001	0.0240
GB-13	GB-013	GB-014	CONDUIT	32.3	1.2401	0.0240
NE-01	NE-001	NE-002	CONDUIT	460.8	2.0585	0.0690
NE-02	NE-002	NE-003	CONDUIT	676.0	1.6928	0.0690
NE-02B	NE-003	NE-004	CONDUIT	25.8	1.9969	0.0240
NE-02C	NE-004	NE-005	CONDUIT	93.4	1.6852	0.0690
NE-03_1	NE-007	NE-021	CONDUIT	513.4	2.3872	0.0690
NE-03_3	NE-021	NE-022	CONDUIT	133.7	1.4196	0.0690
NE-03_5	NE-023	NE-013	CONDUIT	234.3	3.9951	0.0690
NE-05	NE-005	NE-Pond	CONDUIT	42.5	2.8693	0.0690
NE-10	NE-010	NE-0F1	CONDUIT	46.9	5.2267	0.0450
NE-11	NE-011	NE-006	CONDUIT	626.2	1.8353	0.0690
NE-13	NE-012	NE-013	CONDUIT	581.1	1.3401	0.0690
NE-14	NE-013	NE-006	CONDUIT	94.7	5.0039	0.0690
NE-17	NE-017	NE-019	CONDUIT	306.4	3.2763	0.0690
NE-19	NE-015	NE-021	CONDUIT	118.8	1.2575	0.0690
NW-01	NW-001	NW-002	CONDUIT	512.4	0.5082	0.0690
NW-02	NW-003	NW-007	CONDUIT	209.8	0.7773	0.0690
NW-03	NW-004	NW-006	CONDUIT	203.7	0.6613	0.0690
NW-04	NW-005	NW-006	CONDUIT	203.8	0.8490	0.0690
NW-05	NW-006	NW-007	CONDUIT	33.3	3.2077	0.0690
NW-06	NW-007	NW-008	CONDUIT	23.7	1.9561	0.0240
NW-07	NW-008	NW-002	CONDUIT	131.1	2.2229	0.0690
NW-08	NW-002	NW-009	CONDUIT	345.3	3.8416	0.0690
NW-09	NW-009	NW-031	CONDUIT	469.2	0.5011	0.0690
NW-10	NW-010	NW-034	CONDUIT	432.4	1.6326	0.0690
NW-11	NW-026	NW-027	CONDUIT	224.0	1.9202	0.0690
NW-12_1	NW-011	NW-013	CONDUIT	379.2	1.2819	0.0690
NW-12_2	NW-013	NW-022	CONDUIT	170.0	1.1624	0.0690
NW-13	NW-012	NW-017	CONDUIT	239.2	0.5067	0.0690
NW-16	NW-015	NW-016	CONDUIT	141.6	2.3267	0.0690
NW-17	NW-016	NW-017	CONDUIT	23.8	0.5972	0.0240

NW-18	NW-017	NW-036	CONDUIT	237.5	0.3785	0.0690
NW-20	NW-019	NW-020	CONDUIT	174.3	0.6806	0.0690
NW-21	NW-020	NW-021	CONDUIT	17.7	1.7758	0.0240
NW-22_1	NW-037	NW-036	CONDUIT	198.1	0.2216	0.0690
NW-22_2	NW-035	NW-022	CONDUIT	401.5	1.1845	0.0690
NW-23	NW-022	NW-023	CONDUIT	24.0	1.3289	0.0240
NW-24_1	NW-023	NW-029	CONDUIT	230.1	0.9814	0.0690
NW-24_2	NW-029	NW-024	CONDUIT	107.8	0.9215	0.0690
NW-25	NW-024	NW-025	CONDUIT	170.0	6.7295	0.0690
NW-26	NW-025	NW-027	CONDUIT	466.4	1.4970	0.0690
NW-27	NW-027	NW-Pond2	CONDUIT	23.3	2.1488	0.0690
NW-29	NW-028	NW-030	CONDUIT	20.0	17.7743	0.0240
NW-30	NW-030	NW-0F2	CONDUIT	55.3	6.7060	0.0690
NW-31	NW-031	NW-Pond1	CONDUIT	169.0	8.9942	0.0690
NW-32	NW-032	NW-033	CONDUIT	20.0	4.8657	0.0240
NW-33	NW-033	NW-0F1	CONDUIT	47.1	6.0027	0.0690
NW-35_1	NW-021	NW-036	CONDUIT	31.2	0.0032	0.0690
NW-35_2	NW-036	NW-013	CONDUIT	51.0	6.1826	0.0690
NW-36_1	NW-041	J1	CONDUIT	213.3	2.7259	0.0690
NW-36_2	J1	NW-042	CONDUIT	153.9	3.9868	0.0690
NW-37	NW-043	NW-042	CONDUIT	171.1	5.7273	0.0690
NW-38	NW-042	NW-025	CONDUIT	207.9	1.5165	0.0690
NW-39	NW-040	NW-023	CONDUIT	108.3	0.5912	0.0690
SE-01_1	SE-001	SE-014	CONDUIT	407.4	1.2362	0.0690
SE-01_2	SE-014	SE-002	CONDUIT	244.2	0.9358	0.0690
SE-02	SE-002	SE-003	CONDUIT	25.0	1.0006	0.0240
SE-03	SE-003	SE-007	CONDUIT	601.3	3.3771	0.0690
SE-04	SE-005	SE-006	CONDUIT	391.6	3.0931	0.0690
SE-05	SE-006	SE-004	CONDUIT	283.1	7.5210	0.0690
SE-06	SE-007	SE-004	CONDUIT	662.9	0.8252	0.0690
SE-07	SE-004	SE-Pond	CONDUIT	33.3	3.6062	0.0690
SE-08	SE-008	SE-009	CONDUIT	20.0	1.0001	0.0240
SE-09	SE-009	SE-0F1	CONDUIT	49.7	3.2079	0.0690
SE-10	SE-010	SE-013	CONDUIT	174.9	3.0954	0.0690
SE-11	SE-011	SE-013	CONDUIT	162.6	2.9915	0.0690
SE-12	SE-013	SE-0F2	CONDUIT	219.4	1.0907	0.0690
SE-13	SE-012	SE-014	CONDUIT	410.1	0.6406	0.0690
SE-14	SE-015	SE-014	CONDUIT	318.2	0.1722	0.0690
SW-01	SW-001	SW-003	CONDUIT	202.5	1.3140	0.0690
SW-02	SW-002	SW-003	CONDUIT	214.3	0.7358	0.0690
SW-07	SW-008	SW-009	CONDUIT	332.5	2.5669	0.0690

SW-09	SW-009	SW-010	CONDUIT	610.8	0.8618	0.0690
SW-10	SW-011	SW-012	CONDUIT	488.7	1.9833	0.0690
SW-11	SW-013	SW-015	CONDUIT	315.4	2.2260	0.0690
SW-12	SW-014	SW-015	CONDUIT	349.9	2.0317	0.0690
SW-13	SW-015	SW-012	CONDUIT	124.2	2.0190	0.0690
SW-14	SW-012	SW-010	CONDUIT	211.3	2.0589	0.0690
SW-15	SW-010	SW-Pond	CONDUIT	34.4	5.8398	0.0690
SW-16	SW-016	SW-017	CONDUIT	17.7	3.9269	0.0240
SW-17	SW-017	SW-0F1	CONDUIT	252.3	1.5879	0.0690
TMF-01	TMF_PondOutlet	TMF-0F01	CONDUIT	67.7	0.4384	0.0450
TMF-02	TMF-001	TMF-0F09	CONDUIT	147.2	5.2808	0.0350
TMF-03	TMF-003	TMF-0F10	CONDUIT	248.6	1.1794	0.0350
TMF-04	TMF-018	TMF-0F02	CONDUIT	704.8	5.8581	0.0350
TMF-06	TMF-005	TMF-004	CONDUIT	177.2	1.2175	0.0350
TMF-07	TMF-004	TMF-0F03	CONDUIT	76.5	2.5119	0.0350
TMF-08	TMF-008	TMF-019	CONDUIT	372.3	1.2831	0.0350
TMF-10	TMF-019	TMF-011	CONDUIT	271.0	2.2757	0.0350
TMF-11	TMF-009	TMF-011	CONDUIT	119.6	0.5392	0.0350
TMF-12	TMF-011	TMF-0F07	CONDUIT	95.3	1.2323	0.0350
TMF-13	TMF-017	TMF-010	CONDUIT	132.7	1.7373	0.0350
TMF-14	TMF-010	TMF-012	CONDUIT	368.5	2.3684	0.0350
TMF-15	TMF-015	TMF-006	CONDUIT	318.0	4.0702	0.0350
TMF-17	TMF-016	TMF-013	CONDUIT	139.9	3.0991	0.0350
TMF-18	TMF-013	TMF-0F04	CONDUIT	31.9	1.9910	0.0350
TMF-19	TMF-012	TMF-0F05	CONDUIT	30.8	1.4391	0.0350
TMF-21	TMF-006	TMF-0F11	CONDUIT	170.6	1.9159	0.0350
TMF-22	TMF-020	TMF-021	CONDUIT	386.9	2.3873	0.0690
TMF-23	TMF-022	TMF-021	CONDUIT	421.8	1.4145	0.0690
TMF-28	TMF-021	0F2	CONDUIT	36.2	1.7929	0.0690
C1	J3	TMF-022	IDEAL PUMP			
C2	TMF-024	TMF-020	IDEAL PUMP			
NE-03_2	NE-022	NE-023	IDEAL PUMP			
NE-04	NE-006	NE-005	IDEAL PUMP			
NE-18	NE-019	NE-022	IDEAL PUMP			
NW-10_2	NW-034	NW-031	IDEAL PUMP			
NW-OR1	NW-Pond2	NW-028	ORIFICE			
NW-OR2	NW-Pond2	NW-028	ORIFICE			
NW-OR3	NW-Pond1	NW-032	ORIFICE			
NW-OR4	NW-Pond1	NW-032	ORIFICE			
SE-OR1	SE-Pond	SE-008	ORIFICE			
SE-OR2	SE-Pond	SE-008	ORIFICE			

SW-OR1	SW-Pond	SW-016	ORIFICE
SW-OR2	SW-Pond	SW-016	ORIFICE
NE-W1	NE-Pond	NE-010	WEIR
NW-W1	NW-Pond2	NW-030	WEIR
NW-W2	NW-Pond1	NW-033	WEIR
SE-W1	SE-Pond	SE-009	WEIR
SW-W1	SW-Pond	SW-017	WEIR

Cross Section Summary

Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
GB-02	CIRCULAR	0.30	0.07	0.07	0.30	1	0.25
GB-07	CIRCULAR	0.45	0.16	0.11	0.45	1	0.19
GB-08	CIRCULAR	0.75	0.44	0.19	0.75	1	1.13
GB-13	CIRCULAR	1.00	0.79	0.25	1.00	1	1.45
NE-01	TRAPEZOIDAL	0.60	1.68	0.35	4.60	1	1.74
NE-02	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	5.04
NE-02B	CIRCULAR	0.90	0.64	0.23	0.90	1	1.39
NE-02C	TRAPEZOIDAL	0.70	2.17	0.40	5.20	1	2.22
NE-03_1	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	5.99
NE-03_3	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	4.62
NE-03_5	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	7.74
NE-05	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	6.56
NE-10	TRAPEZOIDAL	0.75	2.06	0.39	5.00	1	5.63
NE-11	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	5.25
NE-13	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	4.48
NE-14	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	8.67
NE-17	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	1.10
NE-19	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	0.68
NW-01	TRAPEZOIDAL	0.75	2.44	0.42	5.50	1	1.42
NW-02	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	0.54
NW-03	TRAPEZOIDAL	0.30	0.36	0.16	2.10	1	0.13
NW-04	TRAPEZOIDAL	0.30	0.36	0.16	2.10	1	0.14
NW-05	TRAPEZOIDAL	0.50	1.05	0.28	3.60	1	1.16
NW-06	CIRCULAR	0.50	0.20	0.12	0.50	1	0.29
NW-07	TRAPEZOIDAL	0.50	1.05	0.28	3.60	1	0.97
NW-08	TRAPEZOIDAL	0.75	2.44	0.42	5.50	1	3.91

NW-09	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	2.74
NW-10	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	4.95
NW-11	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	5.37
NW-12_1	TRAPEZOIDAL	0.75	2.44	0.42	5.50	1	2.26
NW-12_2	TRAPEZOIDAL	1.50	8.25	0.79	10.00	1	10.99
NW-13	TRAPEZOIDAL	0.75	2.81	0.45	6.00	1	1.71
NW-16	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	1.24
NW-17	CIRCULAR	0.80	0.50	0.20	0.80	1	0.55
NW-18	TRAPEZOIDAL	0.75	3.19	0.47	6.50	1	1.72
NW-20	TRAPEZOIDAL	0.60	1.68	0.35	4.60	1	1.00
NW-21	CIRCULAR	0.45	0.16	0.11	0.45	1	0.21
NW-22_1	TRAPEZOIDAL	0.75	2.44	0.42	5.50	1	0.94
NW-22_2	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	4.22
NW-23	CIRCULAR	2.10	3.46	0.53	2.10	1	10.83
NW-24_1	TRAPEZOIDAL	1.50	8.25	0.79	10.00	1	10.10
NW-24_2	TRAPEZOIDAL	1.50	8.25	0.79	10.00	1	9.78
NW-25	TRAPEZOIDAL	1.10	4.73	0.59	7.60	1	12.57
NW-26	TRAPEZOIDAL	1.20	5.52	0.64	8.20	1	7.29
NW-27	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	5.68
NW-29	CIRCULAR	0.70	0.38	0.17	0.70	1	2.12
NW-30	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	2.10
NW-31	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	11.62
NW-32	CIRCULAR	0.90	0.64	0.23	0.90	1	2.16
NW-33	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	1.99
NW-35_1	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	0.22
NW-35_2	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	9.63
NW-36_1	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	1.01
NW-36_2	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	1.22
NW-37	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	1.46
NW-38	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	4.77
NW-39	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	2.98
SE-01_1	TRAPEZOIDAL	0.70	2.17	0.40	5.20	1	1.90
SE-01_2	TRAPEZOIDAL	0.80	2.72	0.45	5.80	1	2.24
SE-02	CIRCULAR	0.90	0.64	0.23	0.90	1	0.98
SE-03	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	7.12
SE-04	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	6.81
SE-05	TRAPEZOIDAL	0.70	2.17	0.40	5.20	1	4.68
SE-06	TRAPEZOIDAL	1.00	5.00	0.60	8.00	1	4.69
SE-07	TRAPEZOIDAL	0.70	2.87	0.45	6.20	1	4.62
SE-08	CIRCULAR	0.90	0.64	0.23	0.90	1	0.98
SE-09	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	1.46

SE-10	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	1.07
SE-11	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	1.06
SE-12	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	0.64
SE-13	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	0.49
SE-14	TRAPEZOIDAL	0.60	1.38	0.32	4.10	1	0.39
SW-01	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	0.70
SW-02	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	0.52
SW-07	TRAPEZOIDAL	0.80	2.72	0.45	5.80	1	3.70
SW-09	TRAPEZOIDAL	0.90	3.33	0.50	6.40	1	2.81
SW-10	TRAPEZOIDAL	0.60	1.68	0.35	4.60	1	1.70
SW-11	TRAPEZOIDAL	0.30	0.42	0.18	2.30	1	0.28
SW-12	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	0.87
SW-13	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	0.87
SW-14	TRAPEZOIDAL	0.90	3.33	0.50	6.40	1	4.35
SW-15	TRAPEZOIDAL	0.90	3.33	0.50	6.40	1	7.32
SW-16	CIRCULAR	0.75	0.44	0.19	0.75	1	1.20
SW-17	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	1.02
TMF-01	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	3.93
TMF-02	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	2.76
TMF-03	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	1.31
TMF-04	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	2.91
TMF-06	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	1.33
TMF-07	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	1.91
TMF-08	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	1.36
TMF-10	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	1.81
TMF-11	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	0.88
TMF-12	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	1.34
TMF-13	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	1.59
TMF-14	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	1.85
TMF-15	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	2.43
TMF-17	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	2.12
TMF-18	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	1.70
TMF-19	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	1.44
TMF-21	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	1.66
TMF-22	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	0.94
TMF-23	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	0.73
TMF-28	TRAPEZOIDAL	0.50	1.00	0.27	3.50	1	0.82

Transect Summary

Transect 22

Area:

0.0008	0.0035	0.0088	0.0155	0.0231
0.0319	0.0414	0.0511	0.0612	0.0716
0.0824	0.0935	0.1049	0.1167	0.1291
0.1423	0.1561	0.1704	0.1852	0.2007
0.2165	0.2327	0.2492	0.2661	0.2834
0.3008	0.3192	0.3390	0.3602	0.3827
0.4069	0.4333	0.4608	0.4887	0.5171
0.5464	0.5764	0.6067	0.6374	0.6685
0.7004	0.7327	0.7651	0.7979	0.8311
0.8645	0.8980	0.9317	0.9656	1.0000

Hrad:

0.0179	0.0322	0.0506	0.0764	0.1036
0.1189	0.1494	0.1794	0.2082	0.2359
0.2615	0.2891	0.3157	0.3354	0.3481
0.3666	0.3865	0.4054	0.4300	0.4443
0.4692	0.4962	0.5143	0.5411	0.5680
0.5934	0.6129	0.6157	0.6084	0.6260
0.5893	0.5887	0.5774	0.6047	0.6246
0.6367	0.6636	0.6906	0.7161	0.7373
0.7578	0.7865	0.8144	0.8415	0.8637
0.8950	0.9255	0.9551	0.9757	1.0000

Width:

0.0433	0.1229	0.1763	0.2046	0.2351
0.2702	0.2790	0.2872	0.2962	0.3057
0.3171	0.3254	0.3341	0.3500	0.3731
0.3905	0.4062	0.4228	0.4332	0.4542
0.4640	0.4715	0.4870	0.4943	0.5012
0.5128	0.5569	0.5902	0.6347	0.6688
0.7403	0.7838	0.8017	0.8118	0.8315
0.8621	0.8725	0.8824	0.8939	0.9107
0.9284	0.9355	0.9434	0.9520	0.9658
0.9686	0.9723	0.9767	0.9903	1.0000

Transect T-C3

Area:

0.0007	0.0021	0.0039	0.0062	0.0088
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0.0117	0.0149	0.0185	0.0228	0.0298
0.0385	0.0487	0.0605	0.0736	0.0881
0.1036	0.1201	0.1379	0.1561	0.1750
0.1948	0.2150	0.2362	0.2584	0.2817
0.3054	0.3293	0.3535	0.3782	0.4032
0.4286	0.4542	0.4803	0.5067	0.5335
0.5607	0.5886	0.6170	0.6463	0.6770
0.7083	0.7397	0.7714	0.8033	0.8354
0.8677	0.9002	0.9330	0.9660	1.0000

Hrad:

0.0219	0.0441	0.0650	0.0863	0.1102
0.1327	0.1530	0.1681	0.1653	0.1724
0.1770	0.1730	0.1844	0.1816	0.2004
0.2267	0.2347	0.2641	0.2906	0.3113
0.3355	0.3613	0.3867	0.4065	0.4129
0.4421	0.4715	0.4990	0.5233	0.5504
0.5796	0.6048	0.6296	0.6567	0.6819
0.7015	0.7206	0.7454	0.7670	0.7466
0.7776	0.8077	0.8353	0.8640	0.8939
0.9229	0.9502	0.9770	1.0001	1.0000

Width:

0.0314	0.0473	0.0602	0.0719	0.0801
0.0882	0.0974	0.1097	0.1577	0.2330
0.2731	0.3228	0.3588	0.4053	0.4400
0.4572	0.5119	0.5225	0.5373	0.5623
0.5808	0.5953	0.6300	0.6634	0.6825
0.6909	0.6985	0.7086	0.7228	0.7326
0.7394	0.7510	0.7628	0.7716	0.7822
0.7991	0.8167	0.8341	0.8672	0.9067
0.9108	0.9157	0.9234	0.9297	0.9345
0.9401	0.9473	0.9548	0.9658	1.0000

Transect T-C5_1

Area:

0.0007	0.0022	0.0052	0.0088	0.0132
0.0181	0.0237	0.0300	0.0376	0.0457
0.0545	0.0659	0.0789	0.0935	0.1089
0.1247	0.1409	0.1576	0.1747	0.1925
0.2111	0.2302	0.2500	0.2702	0.2915
0.3145	0.3387	0.3632	0.3887	0.4145
0.4405	0.4666	0.4928	0.5194	0.5462

	0.5732	0.6003	0.6276	0.6555	0.6838
	0.7125	0.7424	0.7736	0.8051	0.8370
	0.8691	0.9014	0.9339	0.9667	1.0000

Hrad:

	0.0203	0.0373	0.0515	0.0752	0.0929
	0.1166	0.1333	0.1458	0.1579	0.1843
	0.2030	0.1802	0.1880	0.2071	0.2331
	0.2601	0.2863	0.3105	0.3380	0.3495
	0.3759	0.3966	0.4162	0.4432	0.4679
	0.4383	0.4642	0.4906	0.5051	0.5351
	0.5652	0.5954	0.6233	0.6493	0.6780
	0.7080	0.7378	0.7540	0.7793	0.8055
	0.8164	0.7997	0.8236	0.8473	0.8737
	0.9011	0.9287	0.9556	0.9737	1.0000

Width:

	0.0332	0.0707	0.1006	0.1175	0.1418
	0.1554	0.1774	0.2057	0.2381	0.2479
	0.3007	0.3658	0.4199	0.4517	0.4673
	0.4794	0.4921	0.5074	0.5168	0.5509
	0.5616	0.5805	0.6007	0.6097	0.6586
	0.7179	0.7299	0.7524	0.7700	0.7750
	0.7796	0.7838	0.7908	0.8001	0.8057
	0.8096	0.8135	0.8324	0.8412	0.8488
	0.8728	0.9285	0.9394	0.9503	0.9581
	0.9646	0.9707	0.9773	0.9929	1.0000

Transect T-C7

Area:

	0.0010	0.0047	0.0107	0.0181	0.0265
	0.0360	0.0463	0.0575	0.0693	0.0825
	0.0968	0.1113	0.1262	0.1413	0.1568
	0.1725	0.1885	0.2049	0.2215	0.2385
	0.2557	0.2732	0.2909	0.3089	0.3271
	0.3456	0.3644	0.3835	0.4035	0.4250
	0.4472	0.4701	0.4937	0.5181	0.5432
	0.5691	0.5968	0.6255	0.6546	0.6840
	0.7138	0.7438	0.7741	0.8047	0.8356
	0.8668	0.8984	0.9313	0.9653	1.0000

Hrad:

	0.0175	0.0362	0.0583	0.0817	0.1046
	0.1279	0.1515	0.1751	0.1986	0.2051

	0.2343	0.2644	0.2940	0.3229	0.3512
	0.3790	0.4065	0.4336	0.4604	0.4868
	0.5141	0.5415	0.5686	0.5948	0.6206
	0.6462	0.6715	0.6966	0.7196	0.7396
	0.7581	0.7762	0.7939	0.8113	0.8283
	0.8312	0.7330	0.7558	0.7783	0.8053
	0.8325	0.8594	0.8862	0.9129	0.9393
	0.9656	0.9913	1.0163	0.9761	1.0000

Width:

	0.0600	0.1494	0.1942	0.2268	0.2568
	0.2840	0.3084	0.3304	0.3507	0.4032
	0.4138	0.4219	0.4299	0.4384	0.4470
	0.4557	0.4644	0.4730	0.4817	0.4903
	0.4977	0.5048	0.5119	0.5195	0.5272
	0.5350	0.5427	0.5505	0.6056	0.6256
	0.6465	0.6673	0.6882	0.7091	0.7308
	0.7653	0.8143	0.8277	0.8411	0.8495
	0.8575	0.8655	0.8734	0.8814	0.8894
	0.8974	0.9258	0.9597	0.9889	1.0000

Transect T-C8

Area:

	0.0004	0.0018	0.0040	0.0069	0.0111
	0.0162	0.0223	0.0293	0.0372	0.0456
	0.0544	0.0637	0.0734	0.0836	0.0942
	0.1052	0.1167	0.1287	0.1431	0.1595
	0.1764	0.1937	0.2126	0.2337	0.2566
	0.2803	0.3051	0.3316	0.3594	0.3878
	0.4163	0.4450	0.4738	0.5027	0.5320
	0.5615	0.5912	0.6213	0.6516	0.6821
	0.7128	0.7437	0.7749	0.8063	0.8379
	0.8697	0.9018	0.9341	0.9667	1.0000

Hrad:

	0.0169	0.0338	0.0536	0.0755	0.0917
	0.1080	0.1249	0.1418	0.1523	0.1782
	0.2025	0.2261	0.2491	0.2715	0.2933
	0.3150	0.3375	0.3590	0.3736	0.3233
	0.3471	0.3704	0.3582	0.3563	0.3714
	0.3929	0.4005	0.4108	0.4288	0.4603
	0.4917	0.5229	0.5540	0.5835	0.6116
	0.6395	0.6673	0.6950	0.7236	0.7521

	0.7803	0.8085	0.8364	0.8640	0.8914
	0.9186	0.9456	0.9725	0.9914	1.0000
Width:					
	0.0265	0.0530	0.0748	0.1042	0.1391
	0.1671	0.1935	0.2199	0.2438	0.2555
	0.2685	0.2815	0.2945	0.3075	0.3208
	0.3337	0.3453	0.3833	0.4677	0.4929
	0.5078	0.5227	0.5935	0.6560	0.6910
	0.7134	0.7618	0.8075	0.8385	0.8427
	0.8469	0.8511	0.8553	0.8617	0.8698
	0.8780	0.8861	0.8940	0.9004	0.9069
	0.9134	0.9199	0.9264	0.9331	0.9399
	0.9468	0.9536	0.9604	0.9750	1.0000

NOTE: The summary statistics displayed in this report are based on results found at every computational time step, not just on results from each reporting time step.

Analysis Options

Flow Units CMS

Process Models:

Rainfall/Runoff YES

RDII NO

Snowmelt NO

Groundwater NO

Flow Routing YES

Ponding Allowed YES

Water Quality NO

Infiltration Method MODIFIED_HORTON

Flow Routing Method DYNWAVE

Surcharge Method EXTRAN

Starting Date 04/13/2021 00:00:00

Ending Date 04/16/2021 00:00:00

Antecedent Dry Days 0.0

Report Time Step 00:01:00

Wet Time Step 00:05:00

Dry Time Step 00:05:00
 Routing Time Step 3.00 sec
 Variable Time Step YES
 Maximum Trials 8
 Number of Threads 2
 Head Tolerance 0.001500 m

	Volume	Depth
Runoff Quantity Continuity	hectare-m	mm
*****	-----	-----
Total Precipitation	238.352	153.060
Evaporation Loss	0.000	0.000
Infiltration Loss	170.864	109.722
Surface Runoff	67.221	43.167
Final Storage	0.497	0.319
Continuity Error (%)	-0.097	

	Volume	Volume
Flow Routing Continuity	hectare-m	10 ⁶ ltr
*****	-----	-----
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	67.366	673.668
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	3.150	31.505
External Outflow	20.252	202.524
Flooding Loss	1.327	13.273
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	50.795	507.957
Final Stored Volume	99.711	997.115
Continuity Error (%)	0.018	

 Highest Continuity Errors

 Node NE-022 (4.87%)
 Node NE-023 (4.07%)

Node SE-014 (3.21%)
Node NE-021 (1.80%)
Node SW-015 (1.37%)

Time-Step Critical Elements

Link NW-29 (7.78%)
Link NW-32 (1.56%)

Highest Flow Instability Indexes

Link NW-OR4 (1)
Link NW-32 (1)

Routing Time Step Summary

Minimum Time Step	:	0.50 sec
Average Time Step	:	2.89 sec
Maximum Time Step	:	3.00 sec
Percent in Steady State	:	-0.00
Average Iterations per Step	:	2.03
Percent Not Converging	:	0.27
Time Step Frequencies	:	
3.000 - 2.096 sec	:	94.41 %
2.096 - 1.465 sec	:	3.65 %
1.465 - 1.024 sec	:	0.29 %
1.024 - 0.715 sec	:	0.74 %
0.715 - 0.500 sec	:	0.91 %

Subcatchment Runoff Summary

Peak	Runoff	Total	Total	Total	Total	Imperv	Perv	Total	Total
Runoff	Coeff	Precip	Runon	Evap	Infil	Runoff	Runoff	Runoff	Runoff
Subcatchment		mm	mm	mm	mm	mm	mm	mm	10^6 ltr
CMS									
GBLake		153.06	0.00	0.00	0.00	150.09	0.00	150.09	119.49
4.57	0.981								
GB-S01		153.06	0.00	0.00	140.00	4.62	8.46	13.07	25.28
3.96	0.085								
GB-S02		153.06	0.00	0.00	144.44	0.00	8.62	8.62	11.23
1.10	0.056								
GB-S03		153.06	0.00	0.00	140.01	4.61	8.46	13.07	0.77
0.12	0.085								
GB-S04		153.06	0.00	0.00	138.25	1.53	13.29	14.82	1.65
0.20	0.097								
GB-S06		153.06	0.00	0.00	122.78	12.27	18.06	30.33	1.07
0.21	0.198								
GB-S07_1		153.06	0.00	0.00	134.57	4.60	13.90	18.50	7.56
1.12	0.121								
GB-S08		153.06	0.00	0.00	138.25	1.53	13.29	14.82	0.15
0.02	0.097								
GB-S09		153.06	0.00	0.00	137.67	6.14	9.27	15.41	1.79
0.31	0.101								
GB-S10		153.06	0.00	0.00	132.44	4.60	16.04	20.64	1.38
0.21	0.135								
GB-S11		153.06	0.00	0.00	136.52	9.21	7.36	16.56	4.37
0.93	0.108								
GB-S12		153.06	0.00	0.00	138.18	1.53	13.36	14.89	2.96
0.36	0.097								
GB-S13		153.06	0.00	0.00	136.52	9.21	7.36	16.56	12.44
2.65	0.108								
GB-S14		153.06	0.00	0.00	126.94	0.00	26.14	26.14	2.62
0.36	0.171								
GB-S19		153.06	0.00	0.00	128.62	0.00	24.46	24.46	1.73
0.28	0.160								
GB-S22_2		153.06	0.00	0.00	128.22	0.00	24.87	24.87	1.97
0.41	0.162								
GB-S23		153.06	0.00	0.00	119.88	0.00	33.34	33.34	0.77
0.40	0.218								
GB-S24		153.06	0.00	0.00	114.17	15.33	23.62	38.95	3.49
0.87	0.254								

GB-S28	153.06	4.92	0.00	149.09	0.00	8.90	8.90	4.75
0.40 0.056								
GB-S29	153.06	0.00	0.00	147.80	0.00	5.27	5.27	7.71
0.67 0.034								
GB-S30	153.06	0.00	0.00	131.40	0.00	21.68	21.68	3.38
0.56 0.142								
GB-S31	153.06	0.00	0.00	140.83	0.00	12.24	12.24	4.81
0.53 0.080								
GB-S32	153.06	1.34	0.00	143.29	0.00	11.12	11.12	1.17
0.12 0.072								
GB-S35	153.06	0.00	0.00	135.47	0.00	17.60	17.60	4.34
0.59 0.115								
GB-S36	153.06	0.00	0.00	137.81	0.00	15.26	15.26	10.12
1.25 0.100								
GB-S37	153.06	0.00	0.00	139.93	0.00	13.14	13.14	7.42
0.85 0.086								
GB-S38	153.06	0.00	0.00	128.78	0.00	24.32	24.32	4.21
0.84 0.159								
GB-S39	153.06	0.00	0.00	109.91	30.68	12.54	43.22	27.17
6.99 0.282								
GB-S40	153.06	0.00	0.00	142.40	0.00	10.67	10.67	0.14
0.01 0.070								
GB-S41	153.06	0.00	0.00	121.95	0.00	31.17	31.17	1.92
0.50 0.204								
NE-S01_1	153.06	0.00	0.00	114.86	9.04	29.90	38.95	3.33
3.05 0.254								
NE-S01_2	153.06	0.00	0.00	114.86	9.04	29.90	38.95	2.49
2.28 0.254								
NE-S02_1	153.06	0.00	0.00	114.85	9.04	29.94	38.97	1.42
1.31 0.255								
NE-S02_2	153.06	0.00	0.00	114.85	9.04	29.94	38.97	1.75
1.61 0.255								
NE-S03	153.06	0.00	0.00	65.36	60.29	26.69	86.97	2.33
1.03 0.568								
NE-S05_1	153.06	0.00	0.00	66.58	60.35	25.37	85.72	2.86
1.08 0.560								
NE-S06	153.06	0.00	0.00	64.99	60.26	27.11	87.38	2.08
0.99 0.571								
NE-S07	153.06	0.00	0.00	64.81	60.25	27.34	87.60	1.84
0.92 0.572								
NE-S08	153.06	0.00	0.00	65.27	60.28	26.79	87.07	1.82
0.82 0.569								
NE-S09	153.06	0.00	0.00	138.32	0.00	14.75	14.75	0.27
0.03 0.006								

NE-S10	153.06	0.00	0.00	138.72	0.00	14.35	14.35	0.54
0.07 0.094								
NE-S11	153.06	0.00	0.00	65.19	60.28	26.88	87.15	0.67
0.30 0.569								
NE-S11_3	153.06	0.00	0.00	65.19	60.28	26.88	87.15	0.41
0.19 0.569								
NE-S11_4	153.06	0.00	0.00	65.19	60.28	26.88	87.15	0.90
0.41 0.569								
NE-S12	153.06	0.00	0.00	65.94	60.32	26.05	86.37	3.69
1.49 0.564								
NE-SPond	153.06	0.00	0.00	0.00	153.27	0.00	153.27	0.86
0.23 1.001								
NW-S01_2	153.06	0.00	0.00	114.92	9.04	29.68	38.71	1.38
1.24 0.253								
NW-S01_3	153.06	0.00	0.00	114.86	9.04	29.91	38.95	1.78
1.64 0.254								
NW-S01_4	153.06	0.00	0.00	114.86	9.04	29.91	38.95	2.14
1.96 0.254								
NW-S03	153.06	0.00	0.00	114.74	9.04	30.68	39.73	4.43
4.16 0.260								
NW-S04	153.06	0.00	0.00	114.76	9.04	30.52	39.56	2.96
2.77 0.258								
NW-S05	153.06	0.00	0.00	114.76	9.04	30.52	39.56	1.69
1.59 0.258								
NW-S06_2	153.06	0.00	0.00	112.73	15.06	25.08	40.14	0.38
0.10 0.262								
NW-S07	153.06	0.00	0.00	125.40	0.00	27.71	27.71	1.89
0.51 0.181								
NW-S08	153.06	0.00	0.00	114.75	9.04	30.62	39.66	1.52
1.42 0.259								
NW-S09	153.06	0.00	0.00	64.71	60.25	27.47	87.72	0.45
0.23 0.573								
NW-S10	153.06	0.00	0.00	64.71	60.25	27.47	87.72	0.45
0.23 0.573								
NW-S11	153.06	0.00	0.00	56.53	75.49	20.11	95.59	5.39
1.93 0.625								
NW-S12	153.06	0.00	0.00	56.46	75.49	20.18	95.67	3.60
1.30 0.625								
NW-S13	153.06	0.00	0.00	69.57	60.38	22.33	82.71	1.51
0.47 0.540								
NW-S14	153.06	0.00	0.00	22.00	120.78	8.75	129.54	4.59
1.80 0.846								
NW-S15	153.06	0.00	0.00	54.84	75.41	22.14	97.55	0.85
0.44 0.637								

NW-S16	153.06	0.00	0.00	64.92	60.26	27.21	87.46	1.78
0.86 0.571								
NW-S17	153.06	0.00	0.00	64.69	60.25	27.49	87.74	1.75
0.90 0.573								
NW-S18	153.06	0.00	0.00	55.13	75.48	21.71	97.18	0.67
0.32 0.635								
NW-S19	153.06	0.00	0.00	64.49	60.24	27.77	88.01	1.01
0.55 0.575								
NW-S20	153.06	0.00	0.00	64.57	60.24	27.67	87.91	1.30
0.69 0.574								
NW-S21	153.06	0.00	0.00	85.65	45.24	21.56	66.79	1.27
0.41 0.436								
NW-S22	153.06	0.00	0.00	89.84	45.30	17.32	62.62	1.41
0.43 0.409								
NW-S23	153.06	0.00	0.00	114.67	15.07	23.12	38.19	0.50
0.12 0.250								
NW-S25	153.06	0.00	0.00	55.30	75.50	21.48	96.97	2.34
1.05 0.634								
NW-S26	153.06	0.00	0.00	114.68	15.08	23.09	38.17	0.28
0.06 0.249								
NW-S27	153.06	0.00	0.00	91.43	45.30	15.73	61.04	3.34
1.01 0.399								
NW-S28	153.06	0.00	0.00	114.59	9.04	34.70	43.74	0.74
0.82 0.286								
NW-S29	153.06	0.00	0.00	65.06	60.27	27.04	87.31	1.89
0.88 0.570								
NW-SPond1	153.06	0.00	0.00	37.50	107.33	8.44	115.77	0.91
0.26 0.756								
NW-SPond2	153.06	0.00	0.00	37.76	107.32	8.18	115.49	1.09
0.30 0.755								
SE-S01	153.06	0.00	0.00	114.75	9.04	30.57	39.61	2.14
2.00 0.259								
SE-S02	153.06	0.00	0.00	114.77	9.04	30.42	39.46	5.07
4.75 0.258								
SE-S03	153.06	0.00	0.00	114.88	9.04	29.83	38.86	2.09
1.90 0.254								
SE-S04	153.06	0.00	0.00	114.78	9.04	30.32	39.36	1.50
1.40 0.257								
SE-S05	153.06	0.00	0.00	114.80	9.04	30.19	39.22	3.96
3.68 0.256								
SE-S06	153.06	0.00	0.00	64.42	60.24	27.88	88.12	0.28
0.16 0.576								
SE-S07	153.06	0.00	0.00	64.42	60.24	27.88	88.12	0.29
0.16 0.576								

SE-S08_1 0.34 0.571	153.06	0.00	0.00	64.99	60.26	27.12	87.38	0.72
SE-S08_2 0.51 0.571	153.06	0.00	0.00	64.99	60.26	27.12	87.38	1.07
SE-SPond 0.18 1.001	153.06	0.00	0.00	0.00	153.24	0.00	153.24	0.69
SPit1 16.70 0.897	153.06	0.00	0.00	14.25	120.81	16.42	137.23	40.08
SPit2 22.93 0.897	153.06	0.00	0.00	14.25	120.81	16.42	137.23	55.03
SPit2-S01 1.68 0.837	153.06	0.00	0.00	23.42	120.78	7.27	128.05	4.30
SPit2-S02 0.91 0.837	153.06	0.00	0.00	23.35	120.76	7.34	128.10	2.29
SW-S01 0.25 0.578	153.06	0.00	0.00	64.22	60.23	28.22	88.46	0.42
SW-S02 0.19 0.578	153.06	0.00	0.00	64.22	60.23	28.22	88.46	0.33
SW-S04_2 0.02 0.070	153.06	0.00	0.00	142.40	0.00	10.67	10.67	0.21
SW-S08 1.60 0.565	153.06	0.00	0.00	65.85	60.31	26.14	86.46	3.91
SW-S09 0.66 0.565	153.06	0.00	0.00	65.86	60.32	26.13	86.45	1.60
SW-S10 1.38 0.568	153.06	0.00	0.00	65.35	60.29	26.70	86.98	3.12
SW-S11 0.46 0.573	153.06	0.00	0.00	64.78	60.25	27.38	87.63	0.92
SW-S13 0.40 0.576	153.06	0.00	0.00	64.35	60.24	27.99	88.23	0.71
SW-S14 0.62 0.576	153.06	0.00	0.00	64.35	60.24	27.99	88.23	1.08
SW-SPond 0.17 1.001	153.06	0.00	0.00	0.00	153.27	0.00	153.27	0.61
TMF-S01 30.48 1.000	153.06	0.00	0.00	0.00	153.06	0.00	153.06	162.57
TMF-S02 0.68 1.003	153.06	0.00	0.00	0.00	153.45	0.00	153.45	2.00
TMF-S03_10 0.70 0.243	153.06	0.00	0.00	116.43	0.00	37.22	37.22	0.78
TMF-S03_11 1.13 0.244	153.06	0.00	0.00	116.29	0.00	37.41	37.41	1.24
TMF-S03_12 0.67 0.244	153.06	0.00	0.00	116.34	0.00	37.34	37.34	0.74

TMF-S03_13	153.06	0.00	0.00	115.90	0.00	38.02	38.02	0.33
0.33 0.248								
TMF-S03_14	153.06	0.00	0.00	116.04	0.00	37.80	37.80	0.57
0.54 0.247								
TMF-S03_15	153.06	0.00	0.00	115.96	0.00	37.93	37.93	0.64
0.62 0.248								
TMF-S03_2	153.06	0.00	0.00	115.66	0.00	38.39	38.39	0.33
0.38 0.251								
TMF-S03_3	153.06	0.00	0.00	116.80	0.00	36.74	36.74	1.41
1.19 0.240								
TMF-S03_4	153.06	0.00	0.00	115.55	0.00	38.50	38.50	0.35
0.42 0.252								
TMF-S03_5	153.06	0.00	0.00	116.14	0.00	37.64	37.64	1.17
1.08 0.246								
TMF-S03_6	153.06	0.00	0.00	116.71	0.00	36.84	36.84	0.74
0.64 0.241								
TMF-S03_7	153.06	0.00	0.00	115.65	0.00	38.41	38.41	0.44
0.51 0.251								
TMF-S03_8	153.06	0.00	0.00	116.71	0.00	36.84	36.84	1.34
1.15 0.241								
TMF-S03_9	153.06	0.00	0.00	116.28	0.00	37.43	37.43	0.54
0.49 0.245								
TMF-S04_1	153.06	0.00	0.00	65.17	60.27	26.91	87.18	2.59
1.18 0.570								
TMF-S04_2	153.06	0.00	0.00	65.26	60.28	26.80	87.08	4.38
1.96 0.569								

Node Depth Summary

Node	Type	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time of Max Occurrence days hr:min	Reported Max Depth Meters
GB-002	JUNCTION	0.00	0.00	63.11	0 00:00	0.00
GB-003	JUNCTION	0.00	0.00	58.81	0 00:00	0.00
GB-007	JUNCTION	0.00	0.00	69.29	0 00:00	0.00
GB-008	JUNCTION	0.00	0.00	69.63	0 00:00	0.00
GB-009	JUNCTION	0.00	0.00	68.98	0 00:00	0.00

GB-013	JUNCTION	0.00	0.00	48.45	0	00:00	0.00
GB-014	JUNCTION	0.00	0.00	48.05	0	00:00	0.00
J1	JUNCTION	0.00	0.00	76.76	0	00:00	0.00
J3	JUNCTION	0.00	0.00	102.87	0	00:00	0.00
NE-001	JUNCTION	0.01	0.54	81.53	0	12:01	0.54
NE-002	JUNCTION	0.03	0.57	72.07	0	12:04	0.57
NE-003	JUNCTION	0.04	0.77	60.83	0	12:09	0.77
NE-004	JUNCTION	0.04	0.61	60.15	0	12:10	0.61
NE-005	JUNCTION	0.09	1.00	58.97	0	11:57	1.00
NE-006	JUNCTION	0.00	0.00	56.77	0	00:00	0.00
NE-007	JUNCTION	0.02	0.68	81.67	0	12:01	0.68
NE-010	JUNCTION	0.08	0.69	53.94	0	12:20	0.69
NE-011	JUNCTION	0.05	0.82	69.08	0	11:57	0.81
NE-012	JUNCTION	0.01	0.49	69.78	0	12:02	0.49
NE-013	JUNCTION	0.03	0.87	62.37	0	12:04	0.87
NE-015	JUNCTION	0.02	0.42	70.66	0	11:54	0.42
NE-017	JUNCTION	0.02	0.27	70.57	0	12:00	0.27
NE-019	JUNCTION	0.00	0.00	60.27	0	00:00	0.00
NE-020	JUNCTION	0.00	0.00	67.32	0	00:00	0.00
NE-021	JUNCTION	0.02	0.64	69.38	0	12:05	0.64
NE-022	JUNCTION	0.91	1.00	67.85	0	11:23	1.00
NE-023	JUNCTION	0.02	0.52	71.38	0	12:06	0.52
NW-001	JUNCTION	0.03	1.00	90.35	0	11:56	1.00
NW-002	JUNCTION	0.03	0.64	87.39	0	12:03	0.64
NW-003	JUNCTION	0.03	0.44	92.20	0	11:55	0.44
NW-004	JUNCTION	0.02	0.50	93.04	0	11:50	0.50
NW-005	JUNCTION	0.02	0.50	93.42	0	11:50	0.50
NW-006	JUNCTION	0.01	0.23	91.42	0	12:05	0.23
NW-007	JUNCTION	0.03	0.80	90.92	0	11:56	0.80
NW-008	JUNCTION	0.04	0.53	90.19	0	11:54	0.52
NW-009	JUNCTION	0.08	1.00	74.49	0	12:10	1.00
NW-010	JUNCTION	0.04	1.00	65.77	0	11:57	1.00
NW-011	JUNCTION	0.03	1.00	90.30	0	11:54	1.00
NW-012	JUNCTION	0.04	0.75	90.44	0	11:55	0.75
NW-013	JUNCTION	0.09	1.08	85.51	0	12:01	1.08
NW-015	JUNCTION	0.03	0.80	92.72	0	11:55	0.80
NW-016	JUNCTION	0.05	0.80	89.42	0	11:53	0.80
NW-017	JUNCTION	0.06	0.80	89.28	0	11:54	0.80
NW-019	JUNCTION	0.03	0.60	89.69	0	12:02	0.60
NW-020	JUNCTION	0.11	1.81	89.71	0	12:05	1.81
NW-021	JUNCTION	0.08	0.60	88.19	0	12:01	0.60

NW-022	JUNCTION	0.08	1.11	83.58	0	12:06	1.11
NW-023	JUNCTION	0.10	1.17	83.31	0	12:07	1.17
NW-024	JUNCTION	0.06	0.78	79.67	0	12:10	0.78
NW-025	JUNCTION	0.10	1.15	68.63	0	12:12	1.15
NW-026	JUNCTION	0.01	0.57	65.37	0	12:00	0.57
NW-027	JUNCTION	0.14	1.17	61.67	0	12:17	1.17
NW-028	JUNCTION	1.12	2.11	59.11	0	13:03	2.11
NW-029	JUNCTION	0.13	1.42	81.31	0	12:09	1.42
NW-030	JUNCTION	0.12	0.70	55.20	0	12:27	0.70
NW-031	JUNCTION	0.06	0.60	71.74	0	12:02	0.60
NW-032	JUNCTION	1.07	1.70	55.70	0	12:32	1.70
NW-033	JUNCTION	0.07	0.71	54.74	0	12:33	0.71
NW-034	JUNCTION	0.00	0.00	57.72	0	00:00	0.00
NW-035	JUNCTION	0.03	0.64	87.85	0	11:58	0.64
NW-036	JUNCTION	0.05	0.55	88.14	0	12:00	0.55
NW-037	JUNCTION	0.00	0.11	88.13	0	12:03	0.11
NW-040	JUNCTION	0.01	0.53	83.31	0	12:07	0.53
NW-041	JUNCTION	0.00	0.00	82.57	0	00:00	0.00
NW-042	JUNCTION	0.00	0.00	70.63	0	00:00	0.00
NW-043	JUNCTION	0.00	0.00	80.41	0	00:00	0.00
SE-001	JUNCTION	0.02	0.70	74.74	0	11:57	0.70
SE-002	JUNCTION	0.04	0.72	67.43	0	12:12	0.72
SE-003	JUNCTION	0.03	0.77	67.24	0	12:01	0.77
SE-004	JUNCTION	0.06	1.00	41.70	0	12:07	1.00
SE-005	JUNCTION	0.02	0.87	74.90	0	11:59	0.87
SE-006	JUNCTION	0.02	0.97	62.90	0	12:03	0.96
SE-007	JUNCTION	0.04	0.78	46.95	0	12:07	0.78
SE-008	JUNCTION	1.12	2.01	39.01	0	12:39	2.00
SE-009	JUNCTION	0.10	0.90	38.70	0	12:34	0.90
SE-010	JUNCTION	0.01	0.21	51.34	0	11:56	0.21
SE-011	JUNCTION	0.01	0.21	50.79	0	11:55	0.21
SE-012	JUNCTION	0.02	0.42	72.04	0	11:59	0.42
SE-013	JUNCTION	0.02	0.39	46.11	0	12:04	0.39
SE-014	JUNCTION	0.03	0.59	69.59	0	12:10	0.59
SE-015	JUNCTION	0.04	0.60	70.15	0	11:54	0.60
SW-001	JUNCTION	0.01	0.26	86.77	0	11:57	0.26
SW-002	JUNCTION	0.01	0.33	85.75	0	11:57	0.33
SW-003	JUNCTION	0.61	0.70	84.55	0	11:50	0.70
SW-008	JUNCTION	0.00	0.00	60.50	0	00:00	0.00
SW-009	JUNCTION	0.03	0.56	52.53	0	12:01	0.56
SW-010	JUNCTION	0.06	0.65	47.35	0	12:05	0.65

SW-011	JUNCTION	0.03	0.56	61.30	0	12:00	0.56
SW-012	JUNCTION	0.04	0.74	51.79	0	12:03	0.74
SW-013	JUNCTION	0.01	0.30	60.88	0	11:53	0.30
SW-014	JUNCTION	0.02	0.45	61.12	0	11:56	0.45
SW-015	JUNCTION	0.02	0.45	54.02	0	12:03	0.45
SW-016	JUNCTION	1.07	2.27	44.97	0	12:25	2.27
SW-017	JUNCTION	0.11	0.75	43.76	0	12:04	0.75
TMF_PondOutlet	JUNCTION	0.00	0.00	51.46	0	00:00	0.00
TMF-001	JUNCTION	0.00	0.20	102.22	0	11:54	0.20
TMF-003	JUNCTION	0.00	0.31	98.64	0	11:56	0.31
TMF-004	JUNCTION	0.01	0.40	57.83	0	12:01	0.40
TMF-005	JUNCTION	0.01	0.49	60.08	0	12:00	0.49
TMF-006	JUNCTION	0.01	0.49	63.51	0	12:00	0.49
TMF-008	JUNCTION	0.01	0.46	97.28	0	11:56	0.46
TMF-009	JUNCTION	0.00	0.37	86.89	0	11:54	0.37
TMF-010	JUNCTION	0.00	0.31	83.34	0	12:01	0.31
TMF-011	JUNCTION	0.01	0.50	86.37	0	11:58	0.50
TMF-012	JUNCTION	0.01	0.50	74.80	0	11:57	0.50
TMF-013	JUNCTION	0.00	0.34	72.54	0	12:00	0.34
TMF-015	JUNCTION	0.00	0.24	76.20	0	12:00	0.24
TMF-016	JUNCTION	0.00	0.31	76.84	0	12:00	0.31
TMF-017	JUNCTION	0.00	0.35	85.68	0	12:00	0.35
TMF-018	JUNCTION	0.01	0.39	98.92	0	12:00	0.39
TMF-019	JUNCTION	0.01	0.46	92.50	0	12:00	0.46
TMF-020	JUNCTION	0.03	0.50	112.20	0	11:54	0.50
TMF-021	JUNCTION	0.06	0.50	102.97	0	11:46	0.50
TMF-022	JUNCTION	0.00	0.00	108.43	0	00:00	0.00
TMF-024	JUNCTION	0.00	0.00	104.17	0	00:00	0.00
GB-OF	OUTFALL	0.00	0.00	35.52	0	00:00	0.00
GB-OF2	OUTFALL	0.00	0.00	30.27	0	00:00	0.00
NE-OF1	OUTFALL	0.08	0.69	51.49	0	12:20	0.69
NW-OF1	OUTFALL	0.05	0.48	51.69	0	12:33	0.48
NW-OF2	OUTFALL	0.10	0.50	51.30	0	12:27	0.50
NW-OF3	OUTFALL	0.00	0.00	50.80	0	00:00	0.00
OF2	OUTFALL	0.03	0.30	102.11	0	11:56	0.30
SE-OF1	OUTFALL	0.06	0.41	36.62	0	12:42	0.41
SE-OF2	OUTFALL	0.01	0.17	43.50	0	12:04	0.17
SW-OF1	OUTFALL	0.04	0.25	39.25	0	12:09	0.25
TMF-OF01	OUTFALL	0.00	0.00	51.16	0	00:00	0.00
TMF-OF02	OUTFALL	0.01	0.39	57.70	0	12:00	0.39
TMF-OF03	OUTFALL	0.01	0.40	55.91	0	12:01	0.40

TMF-OF04	OUTFALL	0.00	0.33	71.90	0	12:00	0.33
TMF-OF05	OUTFALL	0.01	0.47	74.33	0	12:00	0.47
TMF-OF07	OUTFALL	0.01	0.44	85.14	0	12:02	0.44
TMF-OF09	OUTFALL	0.00	0.20	94.46	0	11:54	0.20
TMF-OF10	OUTFALL	0.00	0.25	95.64	0	11:56	0.25
TMF-OF11	OUTFALL	0.01	0.49	60.24	0	12:00	0.49
GoldBrookLake	STORAGE	1.25	1.33	50.39	3	00:00	1.33
NE-Pit	STORAGE	4.56	5.45	-94.55	3	00:00	5.45
NE-Pond	STORAGE	3.41	4.21	57.46	0	12:20	4.21
NW-Pit	STORAGE	5.86	6.97	-93.03	3	00:00	6.97
NW-Pond1	STORAGE	1.20	2.16	56.16	0	12:30	2.16
NW-Pond2	STORAGE	1.34	2.99	59.99	0	13:03	2.99
SE-Pond	STORAGE	1.31	3.72	40.72	0	12:43	3.72
SW-Pond	STORAGE	1.27	2.74	45.44	0	12:25	2.74
TMF_Storage	STORAGE	1.48	1.82	54.42	3	00:00	1.82

Node Inflow Summary

Node	Type	Maximum Lateral Inflow CMS	Maximum Total Inflow CMS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 ltr	Total Inflow Volume 10^6 ltr	Flow Balance Error Percent
GB-002	JUNCTION	0.000	0.000	0 00:00	0	0	0.000 ltr
GB-003	JUNCTION	0.000	0.000	0 00:00	0	0	0.000 ltr
GB-007	JUNCTION	0.000	0.000	0 00:00	0	0	0.000 ltr
GB-008	JUNCTION	0.000	0.000	0 00:00	0	0	0.000 ltr
GB-009	JUNCTION	0.000	0.000	0 00:00	0	0	0.000 ltr
GB-013	JUNCTION	0.000	0.000	0 00:00	0	0	0.000 ltr
GB-014	JUNCTION	0.000	0.000	0 00:00	0	0	0.000 ltr
J1	JUNCTION	0.000	0.000	0 00:00	0	0	0.000 ltr
J3	JUNCTION	0.000	0.000	0 00:00	0	0	0.000 ltr
NE-001	JUNCTION	1.607	1.607	0 12:00	1.79	1.79	-0.991
NE-002	JUNCTION	0.928	2.072	0 12:00	2.12	3.93	0.285
NE-003	JUNCTION	1.029	1.991	0 12:01	2.34	6.25	0.116
NE-004	JUNCTION	0.065	1.628	0 12:09	0.539	6.78	0.061
NE-005	JUNCTION	1.093	8.558	0 12:01	5.45	28.5	0.205

NE-006	JUNCTION	1.806	6.373	0	12:01	3.91	16.3	0.000
NE-007	JUNCTION	2.280	2.280	0	12:00	2.55	2.55	-1.983
NE-010	JUNCTION	0.000	4.610	0	12:20	0	21.1	0.006
NE-011	JUNCTION	1.493	1.493	0	11:54	3.69	3.69	-0.002
NE-012	JUNCTION	1.307	1.307	0	12:00	1.46	1.46	-1.469
NE-013	JUNCTION	3.050	4.787	0	12:00	3.41	8.68	0.239
NE-015	JUNCTION	0.303	0.303	0	11:54	0.668	0.668	-1.367
NE-017	JUNCTION	0.187	0.187	0	11:54	0.411	0.411	-0.005
NE-019	JUNCTION	0.411	0.545	0	11:55	0.904	1.32	0.000
NE-020	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
NE-021	JUNCTION	0.000	2.304	0	12:02	0	3.28	1.836
NE-022	JUNCTION	0.000	1.931	0	12:04	0	4.54	5.115
NE-023	JUNCTION	0.000	1.834	0	12:05	0	3.95	4.241
NW-001	JUNCTION	2.387	2.387	0	12:00	3.61	3.61	-1.640
NW-002	JUNCTION	1.235	3.322	0	12:00	1.41	8.56	0.078
NW-003	JUNCTION	0.428	0.428	0	11:54	1.41	1.41	-0.550
NW-004	JUNCTION	0.229	0.229	0	11:54	0.45	0.45	-0.592
NW-005	JUNCTION	0.230	0.230	0	11:54	0.452	0.452	-0.822
NW-006	JUNCTION	0.000	0.215	0	12:03	0	0.76	0.554
NW-007	JUNCTION	0.000	0.564	0	11:57	0	2.17	0.128
NW-008	JUNCTION	0.517	0.894	0	12:00	1.77	3.85	-0.146
NW-009	JUNCTION	0.000	2.745	0	12:03	0	8.55	1.150
NW-010	JUNCTION	2.770	2.770	0	12:00	3.05	3.05	-0.022
NW-011	JUNCTION	4.914	4.914	0	12:00	6.33	6.33	-0.750
NW-012	JUNCTION	1.926	1.926	0	11:54	5.4	5.4	-0.295
NW-013	JUNCTION	0.000	4.754	0	12:00	0	21.4	0.132
NW-015	JUNCTION	1.299	1.299	0	11:54	3.61	3.61	-0.120
NW-016	JUNCTION	0.000	1.239	0	11:56	0	3.61	0.207
NW-017	JUNCTION	0.444	2.631	0	11:55	0.847	9.38	0.134
NW-019	JUNCTION	0.470	0.470	0	11:54	1.51	1.55	-0.217
NW-020	JUNCTION	1.800	2.160	0	11:54	4.59	5.94	0.463
NW-021	JUNCTION	0.000	0.455	0	12:06	0	5.88	0.006
NW-022	JUNCTION	0.059	6.313	0	12:02	0.284	25.3	0.338
NW-023	JUNCTION	0.102	5.708	0	12:04	0.378	25.7	-0.023
NW-024	JUNCTION	0.000	5.709	0	12:09	0	27.5	0.010
NW-025	JUNCTION	2.568	6.483	0	12:10	4.22	31.8	-0.125
NW-026	JUNCTION	1.587	1.587	0	12:00	1.74	1.74	-2.209
NW-027	JUNCTION	0.010	6.849	0	12:14	2.7	36.3	0.300
NW-028	JUNCTION	0.000	2.269	0	12:27	0	42	0.004
NW-029	JUNCTION	0.883	5.809	0	12:07	1.89	27.5	0.003
NW-030	JUNCTION	0.000	2.263	0	12:27	0	42	0.005

NW-031	JUNCTION	1.971	3.982	0	12:00	4.89	15.8	-0.211
NW-032	JUNCTION	0.000	2.181	0	12:34	0	16.4	-0.027
NW-033	JUNCTION	0.000	2.051	0	12:30	0	16.4	0.007
NW-034	JUNCTION	0.000	1.092	0	12:04	0	2.61	0.000
NW-035	JUNCTION	1.737	1.737	0	11:54	3.64	3.64	-1.769
NW-036	JUNCTION	0.869	2.593	0	11:56	1.69	16.2	0.006
NW-037	JUNCTION	0.000	0.045	0	11:57	0	0.0225	9.084
NW-040	JUNCTION	0.000	0.200	0	11:59	0	0.102	1.548
NW-041	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
NW-042	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
NW-043	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
SE-001	JUNCTION	2.002	2.002	0	12:00	2.2	2.2	-2.548
SE-002	JUNCTION	0.000	1.148	0	12:10	0	3.74	0.026
SE-003	JUNCTION	3.684	3.967	0	12:00	4.07	7.81	-1.152
SE-004	JUNCTION	0.011	7.438	0	12:06	2.85	19.6	0.701
SE-005	JUNCTION	4.749	4.749	0	12:00	5.22	5.22	-1.174
SE-006	JUNCTION	1.905	6.701	0	12:00	2.14	7.43	0.161
SE-007	JUNCTION	1.397	4.669	0	12:01	1.54	9.4	1.145
SE-008	JUNCTION	0.000	1.245	0	12:29	0	18.6	0.005
SE-009	JUNCTION	0.000	1.787	0	12:43	0	19.6	0.007
SE-010	JUNCTION	0.162	0.162	0	11:54	0.293	0.293	-1.281
SE-011	JUNCTION	0.157	0.157	0	11:54	0.283	0.283	-1.237
SE-012	JUNCTION	0.341	0.341	0	11:54	0.719	0.719	-3.776
SE-013	JUNCTION	0.000	0.294	0	11:56	0	0.584	1.275
SE-014	JUNCTION	0.000	1.985	0	12:03	0	3.83	3.315
SE-015	JUNCTION	0.508	0.508	0	11:54	1.07	1.07	-3.263
SW-001	JUNCTION	0.193	0.193	0	11:54	0.326	0.326	-0.933
SW-002	JUNCTION	0.247	0.247	0	11:54	0.418	0.418	-1.005
SW-003	JUNCTION	0.000	0.361	0	11:57	0	0.751	0.000
SW-008	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
SW-009	JUNCTION	1.380	1.380	0	11:54	3.13	3.13	-0.616
SW-010	JUNCTION	0.464	3.624	0	12:02	2.21	12.9	0.454
SW-011	JUNCTION	1.611	1.611	0	11:54	4.13	4.13	-0.431
SW-012	JUNCTION	0.655	2.683	0	12:00	1.6	7.51	0.219
SW-013	JUNCTION	0.403	0.403	0	11:54	0.711	0.711	-0.748
SW-014	JUNCTION	0.616	0.616	0	11:54	1.09	1.09	-1.409
SW-015	JUNCTION	0.000	0.880	0	11:59	0	1.79	1.391
SW-016	JUNCTION	0.000	1.579	0	12:25	0	13.3	-0.022
SW-017	JUNCTION	0.000	1.579	0	12:25	0	13.3	0.034
TMF_PondOutlet	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
TMF-001	JUNCTION	0.379	0.379	0	11:54	0.334	0.334	-0.010

TMF-003	JUNCTION	0.422	0.422	0	11:54	0.351	0.351	-0.053
TMF-004	JUNCTION	0.000	1.127	0	12:00	0	1.36	0.418
TMF-005	JUNCTION	1.149	1.149	0	12:00	1.35	1.35	-0.411
TMF-006	JUNCTION	1.187	1.666	0	12:00	1.42	1.96	0.232
TMF-008	JUNCTION	1.123	1.123	0	11:54	1.09	1.09	-1.506
TMF-009	JUNCTION	0.325	0.325	0	11:54	0.33	0.33	-3.143
TMF-010	JUNCTION	0.000	0.671	0	12:00	0	0.755	1.327
TMF-011	JUNCTION	0.000	1.829	0	12:00	0	2.02	1.184
TMF-012	JUNCTION	1.130	1.728	0	12:00	1.25	1.99	-0.270
TMF-013	JUNCTION	0.000	0.694	0	12:00	0	0.79	0.283
TMF-015	JUNCTION	0.492	0.492	0	12:00	0.542	0.542	-0.883
TMF-016	JUNCTION	0.700	0.700	0	12:00	0.788	0.788	-0.288
TMF-017	JUNCTION	0.675	0.675	0	12:00	0.75	0.75	-0.603
TMF-018	JUNCTION	1.720	1.720	0	12:00	1.92	1.92	-0.019
TMF-019	JUNCTION	0.536	1.619	0	11:58	0.576	1.68	0.174
TMF-020	JUNCTION	1.183	1.183	0	11:54	2.59	2.59	-0.187
TMF-021	JUNCTION	1.965	2.887	0	11:54	4.38	6.92	0.067
TMF-022	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
TMF-024	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
GB-OF	OUTFALL	2.160	2.160	0	12:18	18.5	18.5	0.000
GB-OF2	OUTFALL	9.572	9.572	0	12:00	56.7	56.7	0.000
NE-OF1	OUTFALL	0.000	4.610	0	12:20	0	21.1	0.000
NW-OF1	OUTFALL	0.000	2.035	0	12:33	0	16.4	0.000
NW-OF2	OUTFALL	0.000	2.158	0	12:47	0	41.8	0.000
NW-OF3	OUTFALL	1.006	1.006	0	11:54	3.34	3.34	0.000
OF2	OUTFALL	0.000	0.554	0	11:56	0	4.76	0.000
SE-OF1	OUTFALL	0.000	1.465	0	12:42	0	19.2	0.000
SE-OF2	OUTFALL	0.000	0.177	0	12:04	0	0.576	0.000
SW-OF1	OUTFALL	0.000	0.594	0	12:09	0	9.77	0.000
TMF-OF01	OUTFALL	0.000	0.000	0	00:00	0	0	0.000 ltr
TMF-OF02	OUTFALL	0.000	1.658	0	12:00	0	1.92	0.000
TMF-OF03	OUTFALL	0.000	1.108	0	12:01	0	1.35	0.000
TMF-OF04	OUTFALL	0.000	0.686	0	12:00	0	0.788	0.000
TMF-OF05	OUTFALL	0.000	1.435	0	12:02	0	1.94	0.000
TMF-OF07	OUTFALL	0.000	1.259	0	12:02	0	1.82	0.000
TMF-OF09	OUTFALL	0.000	0.370	0	11:54	0	0.334	0.000
TMF-OF10	OUTFALL	0.000	0.378	0	11:56	0	0.351	0.000
TMF-OF11	OUTFALL	0.000	1.582	0	12:00	0	1.96	0.000
GoldBrookLake	STORAGE	17.040	17.040	0	12:00	198	692	0.003
NE-Pit	STORAGE	16.715	16.715	0	11:54	44	44	0.013
NE-Pond	STORAGE	0.244	6.236	0	11:57	4.78	34.1	-0.070

NW-Pit	STORAGE	25.673	25.673	0	11:54	69.1	69.1	0.013
NW-Pond1	STORAGE	0.261	3.780	0	12:02	0.907	19.6	0.032
NW-Pond2	STORAGE	0.324	6.480	0	12:17	6.85	48.7	0.002
SE-Pond	STORAGE	0.179	5.092	0	12:07	0.69	21.6	-0.140
SW-Pond	STORAGE	0.166	3.499	0	12:05	0.613	15	-0.128
TMF_Storage	STORAGE	31.040	31.040	0	12:00	165	165	0.011

Node Surgecharge Summary

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Meters	Min. Depth Below Rim Meters
J3	JUNCTION	72.00	0.000	0.000
NE-005	JUNCTION	0.26	0.000	0.000
NE-020	JUNCTION	72.00	0.000	0.000
NE-022	JUNCTION	60.60	0.000	0.000
NW-001	JUNCTION	0.17	0.250	0.000
NW-004	JUNCTION	0.27	0.200	0.000
NW-005	JUNCTION	0.25	0.200	0.000
NW-007	JUNCTION	0.32	0.300	0.000
NW-008	JUNCTION	0.03	0.028	0.172
NW-009	JUNCTION	0.15	0.000	0.000
NW-010	JUNCTION	0.11	0.000	0.000
NW-011	JUNCTION	0.19	0.250	0.000
NW-012	JUNCTION	0.09	0.000	0.000
NW-015	JUNCTION	0.13	0.300	0.000
NW-016	JUNCTION	0.26	0.000	0.000
NW-017	JUNCTION	0.29	0.000	0.000
NW-019	JUNCTION	0.28	0.000	0.000
NW-020	JUNCTION	2.42	1.211	0.000
NW-028	JUNCTION	1.12	0.146	0.894
SE-001	JUNCTION	0.09	0.000	0.000
SE-004	JUNCTION	0.06	0.000	0.000
SE-008	JUNCTION	0.57	0.109	1.991
SE-015	JUNCTION	0.13	0.000	0.000

SW-003	JUNCTION	60.17	0.200	0.000
SW-013	JUNCTION	0.13	0.000	0.000
TMF-011	JUNCTION	0.12	0.000	0.000
TMF-012	JUNCTION	0.08	0.000	0.000
TMF-020	JUNCTION	0.11	0.000	0.000
TMF-021	JUNCTION	0.58	0.000	0.000
TMF-024	JUNCTION	72.00	0.000	0.000

Node Flooding Summary

Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CMS	Time of Max Occurrence days hr:min	Total Flood Volume 10^6 ltr	Maximum Ponded Depth Meters
NE-005	0.26	2.564	0 12:01	1.449	0.000
NE-022	18.10	0.182	0 11:55	0.365	0.000
NW-001	0.12	1.182	0 12:00	0.381	0.000
NW-004	0.23	0.143	0 11:54	0.079	0.000
NW-005	0.21	0.135	0 11:54	0.070	0.000
NW-007	0.20	0.234	0 11:56	0.085	0.000
NW-009	0.15	0.574	0 12:10	0.140	0.000
NW-010	0.11	1.676	0 12:00	0.432	0.000
NW-011	0.16	2.669	0 12:00	1.156	0.000
NW-012	0.09	0.224	0 11:55	0.050	0.000
NW-015	0.04	0.076	0 11:55	0.004	0.000
NW-016	0.26	0.686	0 11:57	0.429	0.000
NW-017	0.29	1.218	0 11:55	0.766	0.000
NW-019	0.28	0.387	0 12:06	0.199	0.000
NW-020	2.42	1.808	0 11:54	1.423	1.211
NW-030	1.33	0.100	0 12:27	0.191	0.000
SE-001	0.09	0.889	0 11:59	0.210	0.000
SE-004	0.06	2.432	0 12:07	0.281	0.000
SE-009	0.47	0.322	0 12:43	0.356	0.000
SE-015	0.13	0.285	0 11:54	0.078	0.000
SW-003	25.83	0.361	0 11:57	0.571	0.000

SW-013	0.12	0.119	0	11:54	0.030	0.000
SW-017	1.38	0.986	0	12:25	3.511	0.000
TMF-011	0.12	0.570	0	12:00	0.177	0.000
TMF-012	0.08	0.292	0	12:00	0.055	0.000
TMF-020	0.11	0.231	0	11:54	0.056	0.000
TMF-021	0.57	2.333	0	11:54	2.155	0.000

Storage Volume Summary

Storage Unit	Average Volume 1000 m3	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 m3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CMS
GoldBrookLake	644.488	67	0	0	692.110	72	3 00:00	0.000
NE-Pit	35.130	26	0	0	44.010	32	3 00:00	0.000
NE-Pond	11.622	74	0	0	15.401	99	0 12:20	4.610
NW-Pit	55.289	40	0	0	69.117	51	3 00:00	0.000
NW-Pond1	3.511	25	0	0	7.182	52	0 12:30	2.181
NW-Pond2	8.063	32	0	0	20.627	82	0 13:03	2.269
SE-Pond	2.537	22	0	0	10.245	90	0 12:43	1.787
SW-Pond	2.155	23	0	0	5.922	62	0 12:25	1.579
TMF_Storage	133.720	3	0	0	164.613	3	3 00:00	0.000

Outfall Loading Summary

Outfall Node	Flow Freq Pcnt	Avg Flow CMS	Max Flow CMS	Total Volume 10^6 ltr
GB-OF	12.46	0.903	2.160	18.457
GB-OF2	60.79	0.523	9.572	56.658
NE-OF1	83.66	0.141	4.610	21.119
NW-OF1	97.83	0.092	2.035	16.380

NW-OF2	98.70	0.223	2.158	41.766
NW-OF3	39.54	0.042	1.006	3.340
OF2	47.17	0.052	0.554	4.762
SE-OF1	97.75	0.109	1.465	19.233
SE-OF2	42.05	0.007	0.177	0.576
SW-OF1	97.03	0.050	0.594	9.766
TMF-OF01	0.00	0.000	0.000	0.000
TMF-OF02	8.26	0.126	1.658	1.924
TMF-OF03	7.30	0.103	1.108	1.351
TMF-OF04	6.05	0.070	0.686	0.788
TMF-OF05	10.58	0.103	1.435	1.944
TMF-OF07	12.76	0.084	1.259	1.817
TMF-OF09	3.50	0.046	0.370	0.334
TMF-OF10	6.53	0.027	0.378	0.351
TMF-OF11	9.63	0.114	1.582	1.958

System	39.03	2.817	23.546	202.523

Link Flow Summary

Link	Type	Maximum Flow CMS	Time of Max Occurrence days hr:min	Maximum Veloc m/sec	Max/ Full Flow	Max/ Full Depth
GB-02	CONDUIT	0.000	0 00:00	0.00	0.00	0.00
GB-07	CONDUIT	0.000	0 00:00	0.00	0.00	0.00
GB-08	CONDUIT	0.000	0 00:00	0.00	0.00	0.00
GB-13	CONDUIT	0.000	0 00:00	0.00	0.00	0.00
NE-01	CONDUIT	1.378	0 12:01	0.97	0.79	0.90
NE-02	CONDUIT	1.395	0 12:04	0.72	0.28	0.66
NE-02B	CONDUIT	1.565	0 12:09	2.99	1.13	0.77
NE-02C	CONDUIT	1.627	0 12:10	0.84	0.73	0.94
NE-03_1	CONDUIT	2.063	0 12:02	1.17	0.34	0.62
NE-03_3	CONDUIT	1.654	0 12:05	0.58	0.36	0.82
NE-03_5	CONDUIT	1.758	0 12:06	0.84	0.23	0.69
NE-05	CONDUIT	5.993	0 11:59	1.78	0.91	0.90
NE-10	CONDUIT	4.610	0 12:20	2.59	0.82	0.92

NE-11	CONDUIT	1.919	0	11:57	2.12	0.37	0.41
NE-13	CONDUIT	0.890	0	12:02	0.45	0.20	0.67
NE-14	CONDUIT	3.809	0	12:04	3.83	0.44	0.43
NE-17	CONDUIT	0.164	0	12:00	1.34	0.15	0.27
NE-19	CONDUIT	0.356	0	11:57	0.58	0.52	0.84
NW-01	CONDUIT	1.277	0	12:03	0.59	0.90	0.93
NW-02	CONDUIT	0.404	0	11:55	0.50	0.75	0.94
NW-03	CONDUIT	0.102	0	12:03	0.36	0.80	0.88
NW-04	CONDUIT	0.113	0	12:03	0.40	0.79	0.88
NW-05	CONDUIT	0.204	0	12:05	0.33	0.18	0.73
NW-06	CONDUIT	0.392	0	12:02	2.06	1.37	0.98
NW-07	CONDUIT	0.890	0	11:56	0.90	0.92	0.98
NW-08	CONDUIT	2.745	0	12:03	1.30	0.70	0.93
NW-09	CONDUIT	1.662	0	12:10	0.64	0.61	0.78
NW-10	CONDUIT	1.092	0	12:04	0.87	0.22	0.50
NW-11	CONDUIT	1.515	0	12:00	0.75	0.28	0.74
NW-12_1	CONDUIT	2.292	0	11:54	0.94	1.01	1.00
NW-12_2	CONDUIT	4.903	0	12:02	1.09	0.45	0.72
NW-13	CONDUIT	1.670	0	12:00	0.59	0.98	1.00
NW-16	CONDUIT	1.239	0	11:56	0.99	1.00	1.00
NW-17	CONDUIT	0.701	0	11:53	1.41	1.27	1.00
NW-18	CONDUIT	1.447	0	12:00	0.56	0.84	0.87
NW-20	CONDUIT	0.370	0	11:54	0.31	0.37	1.00
NW-21	CONDUIT	0.455	0	12:06	2.86	2.21	1.00
NW-22_1	CONDUIT	0.045	0	11:57	0.08	0.05	0.44
NW-22_2	CONDUIT	1.502	0	11:58	0.69	0.36	0.82
NW-23	CONDUIT	5.638	0	12:05	3.03	0.52	0.54
NW-24_1	CONDUIT	5.535	0	12:07	0.88	0.55	0.86
NW-24_2	CONDUIT	5.709	0	12:09	1.20	0.58	0.73
NW-25	CONDUIT	5.691	0	12:10	1.58	0.45	0.86
NW-26	CONDUIT	6.543	0	12:14	1.28	0.90	0.96
NW-27	CONDUIT	6.371	0	12:18	1.85	1.12	0.92
NW-29	CONDUIT	2.263	0	12:27	6.52	1.07	1.00
NW-30	CONDUIT	2.158	0	12:47	1.73	1.03	1.00
NW-31	CONDUIT	3.583	0	12:02	2.15	0.31	0.60
NW-32	CONDUIT	2.051	0	12:30	4.46	0.95	0.78
NW-33	CONDUIT	2.035	0	12:33	1.67	1.02	0.98
NW-35_1	CONDUIT	0.459	0	12:05	0.44	2.09	0.58
NW-35_2	CONDUIT	2.512	0	12:00	1.02	0.26	0.78
NW-36_1	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
NW-36_2	CONDUIT	0.000	0	00:00	0.00	0.00	0.00

NW-37	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
NW-38	CONDUIT	0.000	0	00:00	0.00	0.00	0.50
NW-39	CONDUIT	0.200	0	11:59	0.13	0.07	0.76
SE-01_1	CONDUIT	1.361	0	12:03	0.81	0.72	0.86
SE-01_2	CONDUIT	1.148	0	12:10	0.61	0.51	0.82
SE-02	CONDUIT	1.145	0	12:13	2.40	1.17	0.75
SE-03	CONDUIT	3.581	0	12:02	1.55	0.50	0.74
SE-04	CONDUIT	4.855	0	12:00	1.57	0.71	0.88
SE-05	CONDUIT	4.699	0	12:01	2.49	1.00	1.00
SE-06	CONDUIT	2.767	0	12:07	0.74	0.59	0.89
SE-07	CONDUIT	4.995	0	12:10	1.88	1.08	1.00
SE-08	CONDUIT	1.242	0	12:29	2.71	1.27	1.00
SE-09	CONDUIT	1.465	0	12:42	1.36	1.01	0.91
SE-10	CONDUIT	0.149	0	11:56	0.49	0.14	0.57
SE-11	CONDUIT	0.145	0	11:55	0.48	0.14	0.57
SE-12	CONDUIT	0.177	0	12:04	0.47	0.28	0.56
SE-13	CONDUIT	0.317	0	12:00	0.44	0.65	0.90
SE-14	CONDUIT	0.346	0	12:04	0.29	0.89	0.94
SW-01	CONDUIT	0.161	0	11:57	0.26	0.23	0.76
SW-02	CONDUIT	0.200	0	11:57	0.28	0.38	0.83
SW-07	CONDUIT	0.000	0	00:00	0.00	0.00	0.35
SW-09	CONDUIT	0.980	0	12:01	0.62	0.35	0.67
SW-10	CONDUIT	1.453	0	12:00	0.92	0.85	0.97
SW-11	CONDUIT	0.284	0	11:53	0.68	1.00	1.00
SW-12	CONDUIT	0.598	0	11:59	0.79	0.69	0.85
SW-13	CONDUIT	0.694	0	12:03	0.75	0.80	0.95
SW-14	CONDUIT	2.410	0	12:03	1.14	0.55	0.77
SW-15	CONDUIT	3.403	0	12:05	1.85	0.46	0.70
SW-16	CONDUIT	1.579	0	12:25	3.57	1.32	1.00
SW-17	CONDUIT	0.594	0	12:09	0.74	0.58	0.75
TMF-01	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
TMF-02	CONDUIT	0.370	0	11:54	1.65	0.13	0.40
TMF-03	CONDUIT	0.378	0	11:56	1.02	0.29	0.56
TMF-04	CONDUIT	1.658	0	12:00	2.52	0.57	0.78
TMF-06	CONDUIT	1.127	0	12:00	1.41	0.85	0.88
TMF-07	CONDUIT	1.108	0	12:01	1.66	0.58	0.79
TMF-08	CONDUIT	1.086	0	11:58	1.33	0.80	0.91
TMF-10	CONDUIT	1.521	0	12:00	1.62	0.84	0.96
TMF-11	CONDUIT	0.395	0	11:55	0.73	0.45	0.82
TMF-12	CONDUIT	1.259	0	12:02	1.41	0.94	0.94
TMF-13	CONDUIT	0.671	0	12:00	1.58	0.42	0.66

TMF-14	CONDUIT	0.622	0	12:01	0.90	0.34	0.81
TMF-15	CONDUIT	0.480	0	12:00	0.88	0.20	0.73
TMF-17	CONDUIT	0.694	0	12:00	1.47	0.33	0.64
TMF-18	CONDUIT	0.686	0	12:00	1.37	0.40	0.67
TMF-19	CONDUIT	1.435	0	12:02	1.52	0.99	0.97
TMF-21	CONDUIT	1.582	0	12:00	1.65	0.95	0.98
TMF-22	CONDUIT	0.943	0	11:55	0.94	1.00	1.00
TMF-23	CONDUIT	0.000	0	00:00	0.00	0.00	0.50
TMF-28	CONDUIT	0.554	0	11:56	0.82	0.68	0.80
C1	PUMP	0.000	0	00:00			
C2	PUMP	0.000	0	00:00			
NE-03_2	PUMP	1.834	0	12:05			
NE-04	PUMP	6.373	0	12:01			
NE-18	PUMP	0.545	0	11:55			
NW-10_2	PUMP	1.092	0	12:04			
NW-OR1	ORIFICE	0.265	0	12:27			1.00
NW-OR2	ORIFICE	2.007	0	12:27			1.00
NW-OR3	ORIFICE	0.060	0	12:32			1.00
NW-OR4	ORIFICE	2.122	0	12:34			
SE-OR1	ORIFICE	0.107	0	12:29			1.00
SE-OR2	ORIFICE	1.137	0	12:29			1.00
SW-OR1	ORIFICE	0.051	0	12:03			1.00
SW-OR2	ORIFICE	1.536	0	12:25			1.00
NE-W1	WEIR	4.610	0	12:20			0.92
NW-W1	WEIR	0.000	0	00:00			0.00
NW-W2	WEIR	0.000	0	00:00			0.00
SE-W1	WEIR	0.584	0	12:43			0.45
SW-W1	WEIR	0.000	0	00:00			0.00

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Flow Classification Summary
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[illegible]

GB-08	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GB-13	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NE-01	1.00	0.02	0.01	0.00	0.97	0.00	0.00	0.00	0.98	0.00
NE-02	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.98	0.00
NE-02B	1.00	0.02	0.00	0.00	0.56	0.42	0.00	0.00	0.13	0.00
NE-02C	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.98	0.00
NE-03_1	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.96	0.00
NE-03_3	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.98	0.00
NE-03_5	1.00	0.02	0.00	0.00	0.97	0.00	0.00	0.00	0.97	0.00
NE-05	1.00	0.00	0.00	0.00	0.83	0.00	0.00	0.17	0.82	0.00
NE-10	1.00	0.16	0.00	0.00	0.63	0.21	0.00	0.00	0.01	0.00
NE-11	1.00	0.02	0.00	0.00	0.96	0.02	0.00	0.00	0.00	0.00
NE-13	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.98	0.00
NE-14	1.00	0.02	0.00	0.00	0.64	0.34	0.00	0.00	0.00	0.00
NE-17	1.00	0.02	0.00	0.00	0.95	0.03	0.00	0.00	0.00	0.00
NE-19	1.00	0.02	0.23	0.00	0.75	0.00	0.00	0.00	0.90	0.00
NW-01	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.91	0.00
NW-02	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.93	0.00
NW-03	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00
NW-04	1.00	0.02	0.03	0.00	0.95	0.00	0.00	0.00	0.65	0.00
NW-05	1.00	0.02	0.06	0.00	0.91	0.00	0.00	0.00	0.97	0.00
NW-06	1.00	0.02	0.00	0.00	0.93	0.05	0.00	0.00	0.58	0.00
NW-07	1.00	0.02	0.06	0.00	0.92	0.00	0.00	0.00	0.69	0.00
NW-08	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.96	0.00
NW-09	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.65	0.00
NW-10	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00
NW-11	1.00	0.00	0.31	0.00	0.69	0.00	0.00	0.00	0.98	0.00
NW-12_1	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.96	0.00
NW-12_2	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.25	0.00
NW-13	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.96	0.00
NW-16	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.97	0.00
NW-17	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.76	0.00
NW-18	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.03	0.00
NW-20	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.96	0.00
NW-21	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.94	0.00
NW-22_1	1.00	0.02	0.14	0.00	0.84	0.00	0.00	0.00	0.83	0.00
NW-22_2	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.97	0.00
NW-23	1.00	0.02	0.00	0.00	0.97	0.01	0.00	0.00	0.88	0.00
NW-24_1	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.98	0.00
NW-24_2	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00
NW-25	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.97	0.00

NW-26	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.97	0.00
NW-27	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
NW-29	1.00	0.01	0.00	0.00	0.04	0.95	0.00	0.00	0.39	0.00
NW-30	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00
NW-31	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
NW-32	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
NW-33	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00
NW-35_1	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00
NW-35_2	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.97	0.00
NW-36_1	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NW-36_2	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NW-37	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NW-38	1.00	0.02	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NW-39	1.00	0.02	0.61	0.00	0.37	0.00	0.00	0.00	0.82	0.00
SE-01_1	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.96	0.00
SE-01_2	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.95	0.00
SE-02	1.00	0.02	0.01	0.00	0.75	0.22	0.00	0.00	0.02	0.00
SE-03	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.91	0.00
SE-04	1.00	0.04	0.17	0.00	0.79	0.00	0.00	0.00	0.66	0.00
SE-05	1.00	0.00	0.04	0.00	0.96	0.00	0.00	0.00	0.97	0.00
SE-06	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.94	0.00
SE-07	1.00	0.00	0.00	0.00	0.05	0.00	0.00	0.95	0.03	0.00
SE-08	1.00	0.02	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00
SE-09	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00
SE-10	1.00	0.02	0.41	0.00	0.57	0.00	0.00	0.00	0.97	0.00
SE-11	1.00	0.02	0.42	0.00	0.56	0.00	0.00	0.00	0.97	0.00
SE-12	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.15	0.00
SE-13	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.94	0.00
SE-14	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.68	0.00
SW-01	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.97	0.00
SW-02	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.97	0.00
SW-07	1.00	0.02	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SW-09	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.98	0.00
SW-10	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.97	0.00
SW-11	1.00	0.02	0.21	0.00	0.77	0.00	0.00	0.00	0.96	0.00
SW-12	1.00	0.02	0.14	0.00	0.84	0.00	0.00	0.00	0.96	0.00
SW-13	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.98	0.00
SW-14	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.96	0.00
SW-15	1.00	0.00	0.00	0.00	0.02	0.00	0.00	0.98	0.01	0.00
SW-16	1.00	0.03	0.00	0.00	0.04	0.94	0.00	0.00	0.93	0.00
SW-17	1.00	0.03	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00

TMF-01	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TMF-02	1.00	0.87	0.00	0.00	0.10	0.03	0.00	0.00	0.79	0.00
TMF-03	1.00	0.66	0.00	0.00	0.34	0.00	0.00	0.00	0.17	0.00
TMF-04	1.00	0.60	0.00	0.00	0.36	0.04	0.00	0.00	0.19	0.00
TMF-06	1.00	0.71	0.07	0.00	0.22	0.00	0.00	0.00	0.81	0.00
TMF-07	1.00	0.71	0.00	0.00	0.28	0.01	0.00	0.00	0.69	0.00
TMF-08	1.00	0.45	0.17	0.00	0.38	0.00	0.00	0.00	0.83	0.00
TMF-10	1.00	0.25	0.20	0.00	0.55	0.00	0.00	0.00	0.83	0.00
TMF-11	1.00	0.25	0.54	0.00	0.22	0.00	0.00	0.00	0.83	0.00
TMF-12	1.00	0.25	0.00	0.00	0.75	0.00	0.00	0.00	0.45	0.00
TMF-13	1.00	0.61	0.23	0.00	0.15	0.00	0.00	0.00	0.83	0.00
TMF-14	1.00	0.45	0.17	0.00	0.39	0.00	0.00	0.00	0.84	0.00
TMF-15	1.00	0.48	0.31	0.00	0.21	0.00	0.00	0.00	0.84	0.00
TMF-17	1.00	0.78	0.09	0.00	0.13	0.00	0.00	0.00	0.83	0.00
TMF-18	1.00	0.78	0.00	0.00	0.22	0.00	0.00	0.00	0.73	0.00
TMF-19	1.00	0.45	0.00	0.00	0.55	0.00	0.00	0.00	0.56	0.00
TMF-21	1.00	0.48	0.00	0.00	0.52	0.00	0.00	0.00	0.58	0.00
TMF-22	1.00	0.02	0.02	0.00	0.95	0.00	0.00	0.00	0.97	0.00
TMF-23	1.00	0.02	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TMF-28	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00

Conduit Surcharge Summary

Conduit	----- Both Ends	Hours Full Upstream	----- Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
NE-02B	0.01	0.01	0.01	0.28	0.01
NE-02C	0.01	0.01	0.71	0.01	0.01
NE-19	0.01	0.01	0.25	0.01	0.01
NW-01	0.01	0.17	0.01	0.01	0.01
NW-02	0.01	0.01	0.32	0.01	0.01
NW-03	0.01	0.27	0.01	0.01	0.01
NW-04	0.01	0.25	0.01	0.01	0.01
NW-05	0.01	0.01	0.32	0.01	0.01
NW-06	0.01	0.32	0.03	0.47	0.01
NW-07	0.01	0.03	0.37	0.01	0.01

NW-08	0.01	0.01	0.86	0.01	0.01
NW-11	0.01	0.01	0.43	0.01	0.01
NW-12_1	0.19	0.19	0.63	0.05	0.05
NW-13	0.09	0.09	0.42	0.01	0.01
NW-16	0.13	0.13	0.70	0.01	0.01
NW-17	0.01	0.01	0.01	0.08	0.01
NW-18	0.01	0.42	0.01	0.01	0.01
NW-20	0.28	0.28	2.42	0.01	0.01
NW-21	2.08	2.54	2.08	2.62	2.08
NW-22_2	0.01	0.01	0.23	0.01	0.01
NW-25	0.01	0.01	0.23	0.01	0.01
NW-27	0.01	0.43	0.01	0.35	0.01
NW-29	0.01	1.83	0.01	1.81	0.01
NW-30	0.01	2.01	0.01	1.92	0.01
NW-33	0.01	0.39	0.01	0.25	0.01
NW-35_1	0.01	0.01	0.01	2.58	0.01
NW-35_2	0.01	0.01	0.20	0.01	0.01
NW-39	0.01	0.01	0.35	0.01	0.01
SE-02	0.01	0.01	0.01	0.22	0.01
SE-05	0.12	0.18	0.39	0.06	0.06
SE-07	0.07	0.39	1.47	0.30	0.03
SE-08	0.01	0.57	0.01	2.12	0.01
SE-09	0.01	0.98	0.01	0.51	0.01
SE-13	0.01	0.01	0.35	0.01	0.01
SE-14	0.01	0.13	0.01	0.01	0.01
SW-01	0.01	0.01	60.17	0.01	0.01
SW-02	0.01	0.01	60.17	0.01	0.01
SW-10	0.01	0.01	0.28	0.01	0.01
SW-11	0.12	0.12	0.42	0.01	0.01
SW-13	0.01	0.01	0.44	0.01	0.01
SW-16	0.95	0.95	1.38	1.00	0.95
SW-17	0.01	1.76	0.01	0.01	0.01
TMF-10	0.01	0.01	0.12	0.01	0.01
TMF-11	0.01	0.01	0.12	0.01	0.01
TMF-12	0.01	0.12	0.01	0.01	0.01
TMF-22	0.11	0.11	0.57	0.01	0.01
TMF-28	0.01	0.57	0.01	0.01	0.01

Pumping Summary

Pump	Percent Utilized	Number of Start-Ups	Min Flow CMS	Avg Flow CMS	Max Flow CMS	Total Volume 10^6 ltr	Power Usage Kw-hr	% Time Off Pump Curve Low	Off Curve High
C1	0.00	0	0.00	0.00	0.00	0.000	0.00	0.0	0.0
C2	0.00	0	0.00	0.00	0.00	0.000	0.00	0.0	0.0
NE-03_2	43.88	1	0.00	0.05	1.83	3.950	35.92	0.0	0.0
NE-04	58.89	1	0.00	0.15	6.37	16.264	83.27	0.0	0.0
NE-18	35.64	1	0.00	0.02	0.54	1.316	26.91	0.0	0.0
NW-10_2	40.89	1	0.00	0.03	1.09	2.614	98.60	0.0	0.0

Analysis begun on: Tue Apr 5 10:47:25 2022
Analysis ended on: Tue Apr 5 10:47:35 2022
Total elapsed time: 00:00:10



Appendix F.5

Water Balance Analysis Summary Report



Water Balance Analysis Summary Report

Goldboro Gold Project

Anaconda Mining

May 20, 2022

→ **The Power of Commitment**

GHD Limited

455 Phillip Street,

Waterloo, Ontario N2L 3X2, Canada

T +1 519 884-0510 | **F** +1 519 884-0525 | **E** info-northamerica@ghd.com | **ghd.com****Document status**

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Appendix A	Site Water Balance
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List of Acronyms

AET	Actual Evapotranspiration
EARD	Environmental Assessment Registration Document
ECCC	Environment and Climate Change Canada
EOM	End of Mine
masl	metres above sea level
NSECC	Nova Scotia Environment and Climate Change
PA	Project Area
PET	Potential Evapotranspiration
PWQA	Predictive Water Quality Analysis
ROM	Run-of-Mine
TMF	Tailings Management Facility
tpd	tonne-per-day
WBM	Water Balance Model
WRSA	Waste Rock Storage Area

1. Introduction

1.1 Purpose of this report

Anaconda Mining Inc. (Anaconda) has retained GHD Limited (GHD) to provide technical and permitting services in support of a Provincial Class 1 Environmental Assessment Registration Document (EARD) submission to Nova Scotia Environment and Climate Change (NSECC) for the Goldboro Gold Project (Project), located in Guysborough County, Nova Scotia. GHD's scope of work includes the development of a Water Balance Model (WBM) for the proposed mine site.

The WBM simulates the interactions between the local climate, hydrologic responses of the assessed catchment areas, and mine water management operations to model the distribution of water throughout the site over time, and predict impacts to the surrounding natural watercourses. Results from the WBM were mainly used to assess impacts to the seasonal hydrologic regime of the Gold Brook catchment, and were also specifically used to address the following objectives:

- Assess the water management system, including the distribution of water between mine infrastructure to meet operational water demands.
- Estimate contact water and dilution water volumes at water treatment facilities and effluent discharge points to the natural environment to support the Predictive Water Quality Analysis (PWQA).
- Estimate the time to fill the East and West Pits with water as part of the closure plans for site reclamation.
- Evaluate the impact of mine development on drainage patterns in the receiving environment by comparing runoff volumes between baseline (i.e., pre-development) and predicted post-development conditions to support the assessment of effects to wetlands, fish and fish habitat.

The purpose of this report is to document the data inputs and methodology behind the development of the WBM and summarize the model outputs as they pertain to the study objectives. The WBM results are analysed for four phases of mine development, including: baseline, East End-of-Mine (EOM), West EOM, and closure (post-pit filling). The East EOM and West EOM phases were selected for inclusion in this study, because they represent the hydrological years when the largest flow reductions in the Gold Brook system are predicted to occur; when the respective pits will begin to fill with site water, direct precipitation, and groundwater inflows with no discharge to the environment. The results of the water balance analysis are organized to follow the framework of the study objectives.

2. Background

2.1 Project Overview

The Project is located approximately 175 kilometres (km) northeast of Halifax, 60 km southeast of Antigonish, and 1.6 km northeast of the community of Goldboro on the eastern shore of Isaac's Harbour, in Guysborough County, Nova Scotia, Canada. Anaconda proposes to develop the Project as a 4,000-tonne per day (tpd) mine and processing facility. For the purposes of the environmental assessment, a Project Area (PA) was defined as the footprint of the Project related infrastructure plus a buffer zone of 100-200 metres (m). The mine plan includes two open pits (East Pit and West Pit), an ore processing facility, a Tailings Management Facility (TMF), three Waste Rock Storage Areas (WRSAs), overburden and organic stockpiles, support buildings, and associated infrastructure. The anticipated mine life for extraction of ore is 8 years for the East Pit and 11 years for the West Pit.

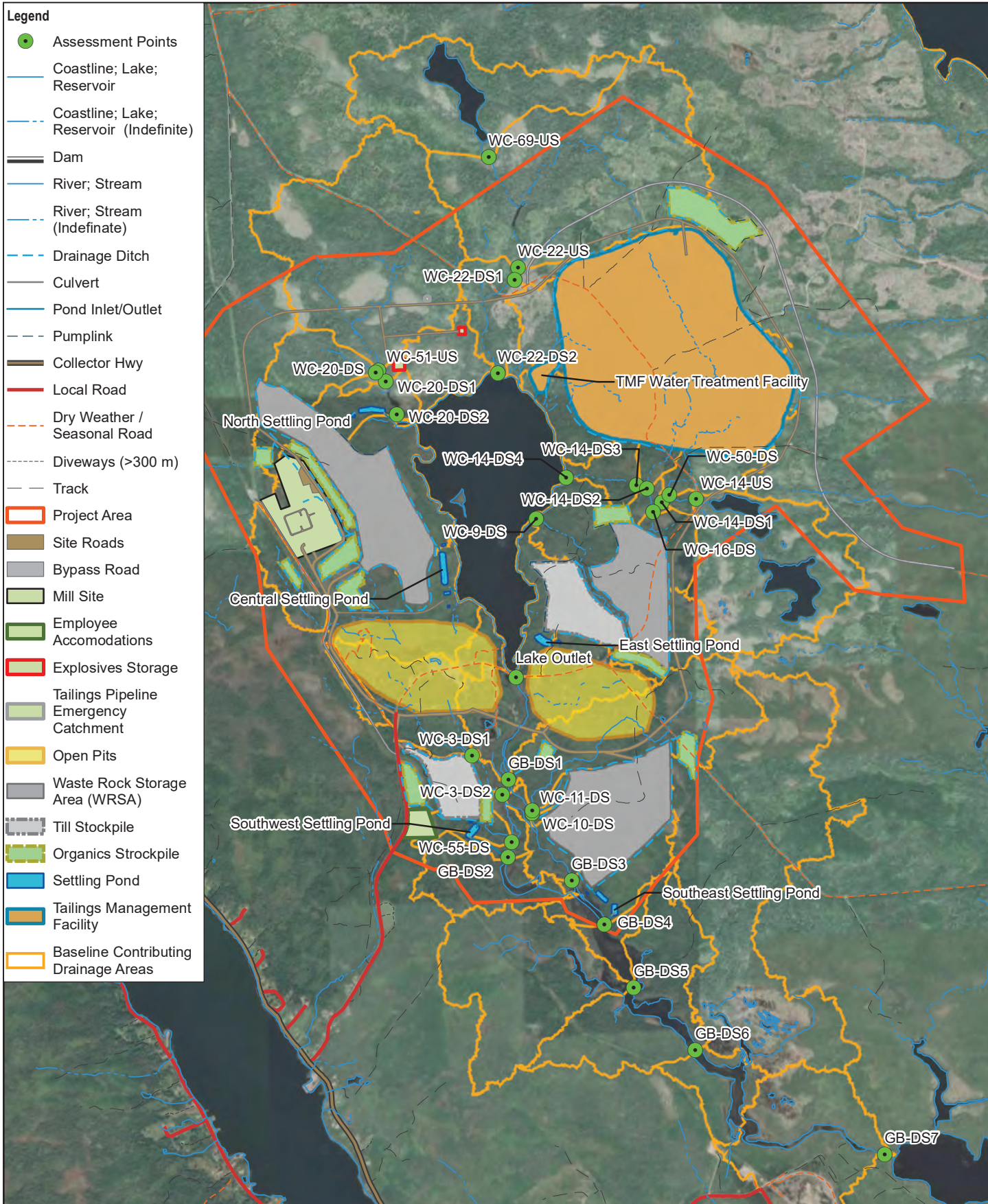
The scope of the Project includes activities associated with construction, operation, and closure. Project construction activities will include clearing and grubbing the overburden and organic stockpiles, WRSAs, pit, plant, and TMF areas,

and construction of the initial lift of the TMF, plant site, secondary access roads, construction laydowns, Run-of-Mine (ROM) pad, surface water management and other site infrastructure. The operation phase will include conventional ore extraction methods (drilling, blasting, loading, and hauling), ore processing, and waste management. ROM ore will go directly to the crusher while stockpiled high-grade and low-grade ore will be progressively processed throughout the mine life. Waste rock, not used for construction or backfill, will be stockpiled at its final disposal point, managed, and reclaimed in place. The closure phase will include earthworks and demolition required to return the Project Area to a safe, stable, and vegetated state, and all monitoring and treatment, where required. Reclamation and Closure Plan requirements are governed by the *Nova Scotia Mineral Resources Act*.

2.2 Mine Water Management Overview

The Project is located within the Gold Brook catchment, which drains to Seal Harbour Lake and ultimately to the Atlantic Ocean at Seal Harbour. The total catchment area at the point where Gold Brook drains into Seal Harbour Lake is approximately 1,530 hectares (ha). The catchment is comprised of numerous lakes, wetlands, watercourses, and forested lands. The largest water body in the catchment is Gold Brook Lake, which has a surface area of 80 ha. **Figure 3.1** presents a map of the Gold Brook catchment including field verified and provincially mapped watercourses.

The proposed mine water management system will include discharges from seven (7) locations at various phases of the Project development to the natural environment, including the north settling pond, central settling pond, southeast settling pond, southwest settling pond, East Pit, West Pit, and TMF water treatment facility. **Figure 3.1** also shows a map of the proposed mine features including the sources of mine contact water, treatment facilities, and discharge points to Gold Brook Lake and Gold Brook.



Paper Size ANSI A
0 200 400 600 800
Metres

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 20N



ANACONDA MINING INC.
GOLDBORO GOLD PROJECT
WATER BALANCE REPORT

Project No. 11222385
Revision No. -
Date May 19, 2022

ASSESSMENT POINT LOCATIONS

FIGURE 3.1

In this analysis, the WBM simulates baseline and post-development flow volumes at various points along the watercourses of the Gold Brook catchment. These assessment points were selected to estimate dilution volumes over the duration of mine development to support the PWQA, and estimate the change in flow volumes from baseline conditions to support the fish and fish habitat effects assessment for this Project. **Figure 3.1** shows the location of the assessment points and corresponding catchment areas. **Table 2.1** summarizes the name, catchment areas, location, and justification for selection of the assessment points. The sizes of the catchment areas will change overtime as a result of the site development. The phases of site development are described in Section 4.3 of this report.

3. Data Collection

3.1 Topographic Data

A Nova Scotia Department of Natural Resources Digital Elevation Model (DEM) was used to perform the delineation of the baseline sub-catchments in the Gold Brook system using spatial analysis tools in a GIS environment. The DEM elevation data was collected in 2018. It has a planar resolution of 1 m x 1 m. The horizontal datum is the North American Datum of 1983 UTM Zone 20 (NAD83 UTM Zone 20) and the vertical datum is the Canadian Geodetic Vertical Datum of 2013 (CGVD2013). Contours were generated from the DEM to verify the baseline sub-catchment boundaries and, with the proposed infrastructure contours, manually delineate sub-catchment boundaries around site infrastructure for the mine development phases. Proposed contours of the site infrastructure including the stockpiles and open pits were generated by Nordmin Resource and Industrial Engineering and were used to support the delineation of the sub-catchments under post-development conditions.

3.2 Climate Data

The WBM uses a combination of daily and average monthly climate data inputs, including daily precipitation (rainfall, snowfall), daily average temperature, average monthly evapotranspiration, and average monthly lake evaporation. A 50-year record of daily precipitation and average temperature values were obtained from the Deming Environment Canada Climate Change (ECCC) climate station (ID 8201410) for the years 1956 to 2005. The Deming climate station is located approximately 37 km from the site.

Potential evapotranspiration (PET) values were calculated using the Hamon method, which estimates PET based on the empirical relationship between mean daily air temperature, saturated water vapour concentration and day length (hours of sunshine). Daily average temperature values from the Deming climate record were used to calculate daily PET values. The daily PET values were then input to a soil-water balance working model to calculate Actual Evapotranspiration (AET) for the corresponding 50-year climate record. The AET values were summarized into average monthly values for input to the WBM. The soil-water balance model is described in Section 4.1 of this report.

Average monthly lake evaporation values were obtained from the Truro ECCC climate station (ID8205990), which is the nearest ECCC climate station to the site that records lake evaporation data. It is located approximately 129 km from the site.

Table 3.1 summarizes the average monthly values of the climate data used in the water balance analysis. Appendix A of the Mine Water Management Plan includes the Climate Data Assessment memorandum, which provides more details on the climate data used in this assessment, such as justifications for the choice of climate stations and the PET calculation method. It also includes a printout of the quality controlled 50-year daily climate record (GHD, 2022a).

4. Methodology

This section of the report describes the water balance modelling methodology, including the baseline (pre-development) and post-development hydrological regimes, incorporation of the groundwater model output, and site water transfers between the sources of contact water and water management infrastructure. The WBM was developed using the GoldSim software.

GoldSim is a highly graphical program used for carrying out dynamic simulations to support decision making (<https://www.goldsim.com/Web/Home/>, last accessed 6 April 2022). GoldSim is especially well-suited to simulating dynamic, computationally intensive, but well-defined network models such as a water balance. GoldSim can perform Monte Carlo simulations, track outputs from those simulations, and provide a graphical interface to facilitate the review and identification of interactions between system components.

The WBM was developed to utilize climate inputs at a daily time-step, allowing the results to be summarized at monthly or annual intervals. The WBM was used to estimate the flow volumes at the proposed mine water management features and 29 assessment points over the duration of the mine. **Figure 3.1** shows the locations of the assessment points.

4.1 Baseline Conditions

4.1.1 Overview

A soil-water balance working model was used to simulate baseline hydrological processes. It uses the 50-year daily records of rainfall, snowfall, average temperature, and calculated PET as input, and includes models of the snowpack and soil-water storage. The snowpack model was used to calculate yield (i.e., the sum of rainfall and snowmelt) and the soil-water storage model was used to calculate AET, baseflow, surface runoff, and total runoff depths for application in the WBM. Descriptions of the snowpack and soil-water storage models are provided below, in addition to a description of the preparation of climate and hydrological inputs to the WBM.

4.1.2 Snowpack Model

The snowpack was modelled using a mass balance approach. **Figure 4.1** shows a schematic of the snowpack component of the soil-water balance working model. Snowfall accumulates into the snowpack, which is represented by a storage element in the working model. Output from the snowpack storage is determined by the snowmelt rate. Snowmelt rate is calculated using the degree-day method when the average daily temperature is greater than 0 degrees Celsius (USDA, 2004). Snowmelt is added to the rainfall depth to generate a 50-year record of the daily yield.

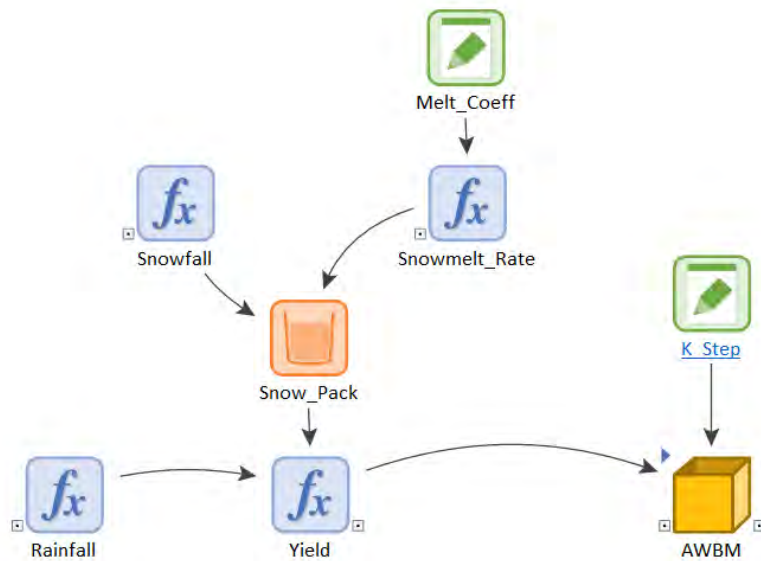


Figure 4.1 Snowpack Model Schematic of the Soil Water Balance Working Model

4.1.3 Soil-Water Storage Model

A conceptual model of the surficial soil-water storage was used to simulate AET, baseflow, surface runoff, and total runoff depths. **Figure 4.2** presents a schematic of the soil-water storage component of the soil-water balance working model.

The soil-water storage is also represented as a storage element in the working model. The capacity of the soil-water storage (i.e., the available water capacity of the soil) was set equal to 150 mm for gravelly sandy loam on the site (MOE, 2003; USGS, 2007).

The yield is added, and PET is subtracted from the soil-water storage on a daily timestep. AET is equal to PET when there is enough water within the storage to meet the PET demand. When the yield plus stored water at the previous timestep is less than the PET demand, AET equals the amount of water available in the soil-water storage. The model generated a 50-year record of daily AET values. The average annual AET depth is approximately 450 mm, which is comparable to the average annual evapotranspiration (1979-2008) modelled for the Atlantic Maritime Canadian ecozone (Wang et al., 2013).

Surplus (i.e., overflow) from the soil-water storage is generated when the yield less PET, plus the stored water at the previous timestep exceeds the soil-water storage capacity. The surplus is partitioned into baseflow and surface runoff depths according to the Baseflow Index (BFI). The BFI represents the fraction of surplus that is baseflow. A BFI of 0.26 was used, which is compatible with the groundwater modelling (GHD, 2022c). The remaining portion of the surplus discharges as surface runoff.

The baseflow and surface runoff portions of the surplus are routed through separate storage elements to lag the release of the flow components to the subcatchment outfalls (i.e., the assessment points), which provides a more realistic hydrograph shape. Discharge volumes from the storage elements are equal to the products of the stored water and $(1-K)$ where 'K' is a recession constant. The baseflow (and surface runoff) recession constant is approximately equal to the negative of the slope of the log of the baseflow (and surface runoff) component on the falling limb of the runoff hydrograph.

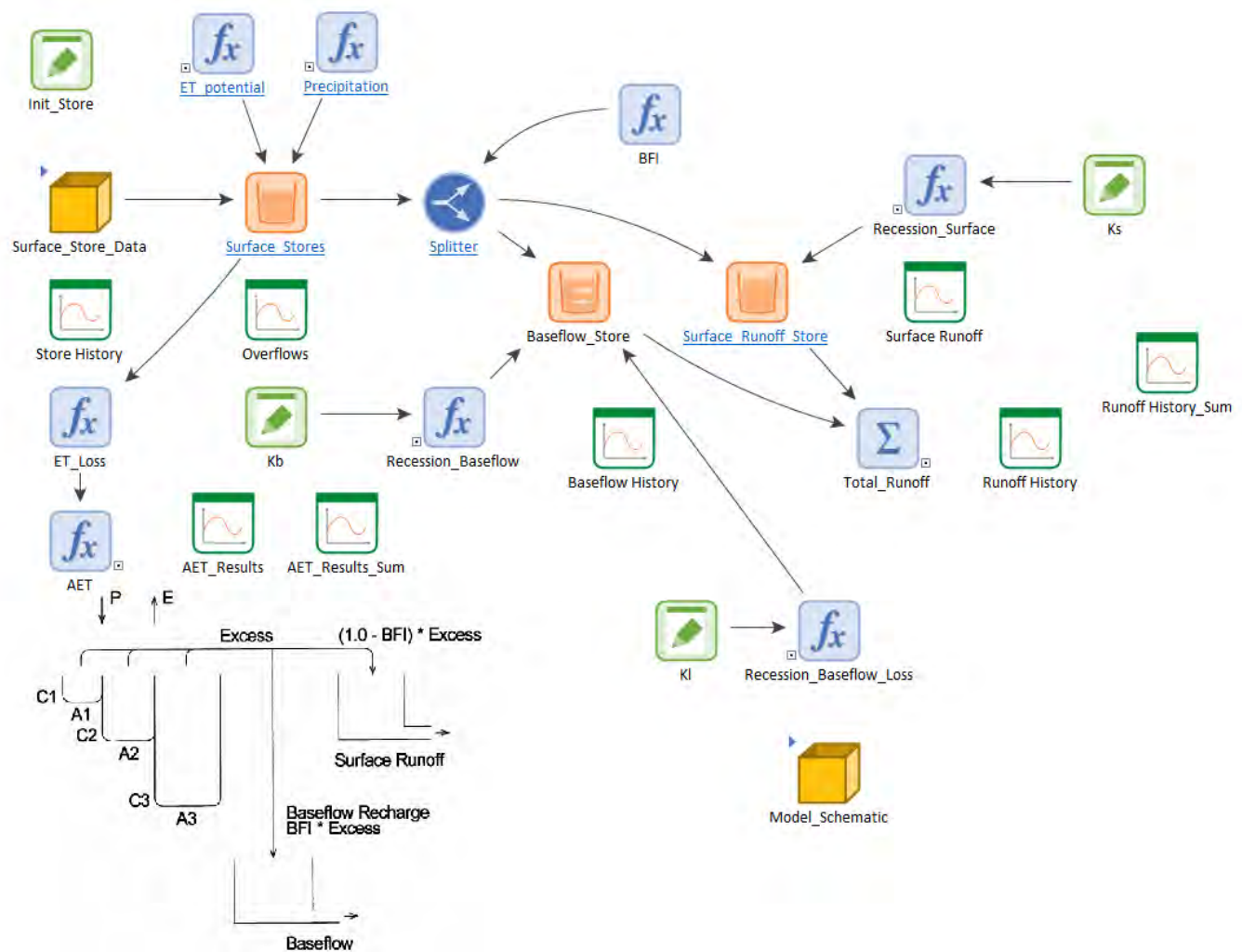


Figure 4.2 Soil Water Storage Schematic of the Soil-Water Balance Working Model

The values of the baseflow and surface runoff recession constants were manually adjusted to match the simulated flows to the observed daily flow rates at the Lake Outlet assessment point, which coincides with the SW-12-21 surface water monitoring station (GHD, 2022d). The simulated and observed daily flow rates were compared from April 1 to November 22, 2021. Daily precipitation data was obtained from the Collegeville Auto (ID 8201001) ECCC climate station to drive soil-water balance working model. Collegeville Auto is the closest climate station to the site with precipitation records that overlap with the monitoring period. The Collegeville Auto climate station is located approximately 43 km from the site; however, it is situated further inland, which means it will experience different precipitation patterns than the site. **Figure 4.3** plots the comparison of the simulated and observed flow rates at the Lake Outfall assessment point. Simulated and observed daily runoff rates are represented by the red and green lines, respectively. The daily yield used as input to the model is represented by the blue line. **Figure 4.4** plots the percent change in cumulative simulated flow compared to cumulative observed flow as the blue line. The percent change at the end of the simulation is approximately 23%.

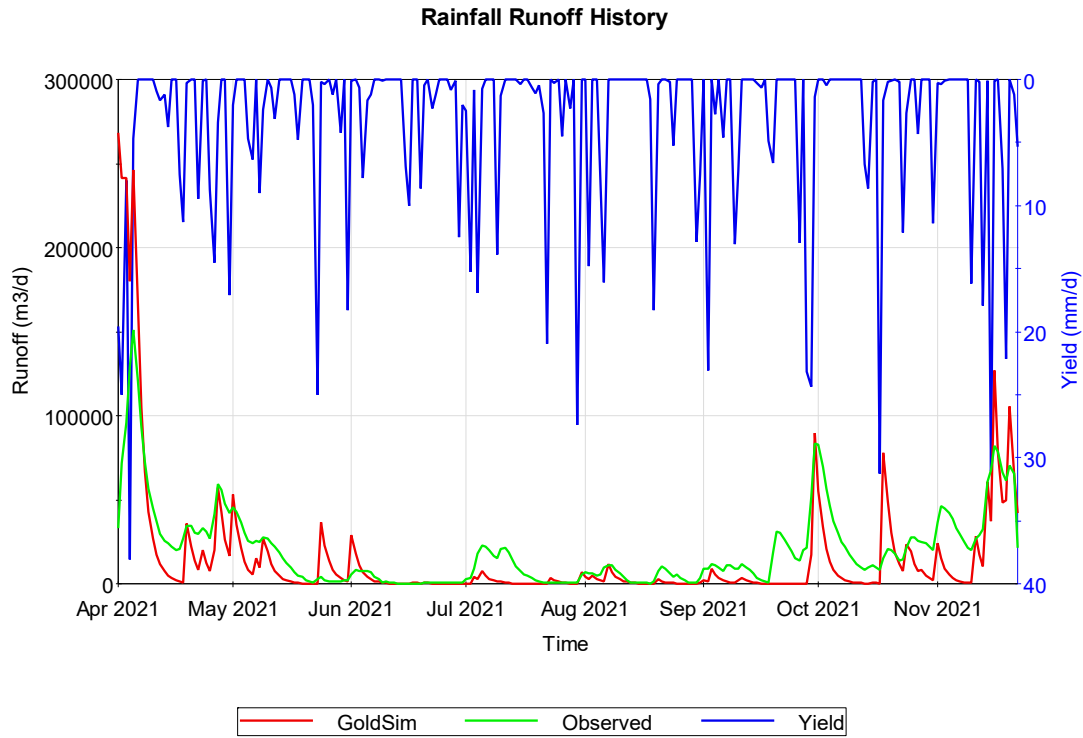


Figure 4.3 Simulated and Observed Flow Comparison at the Lake Outlet Assessment Point

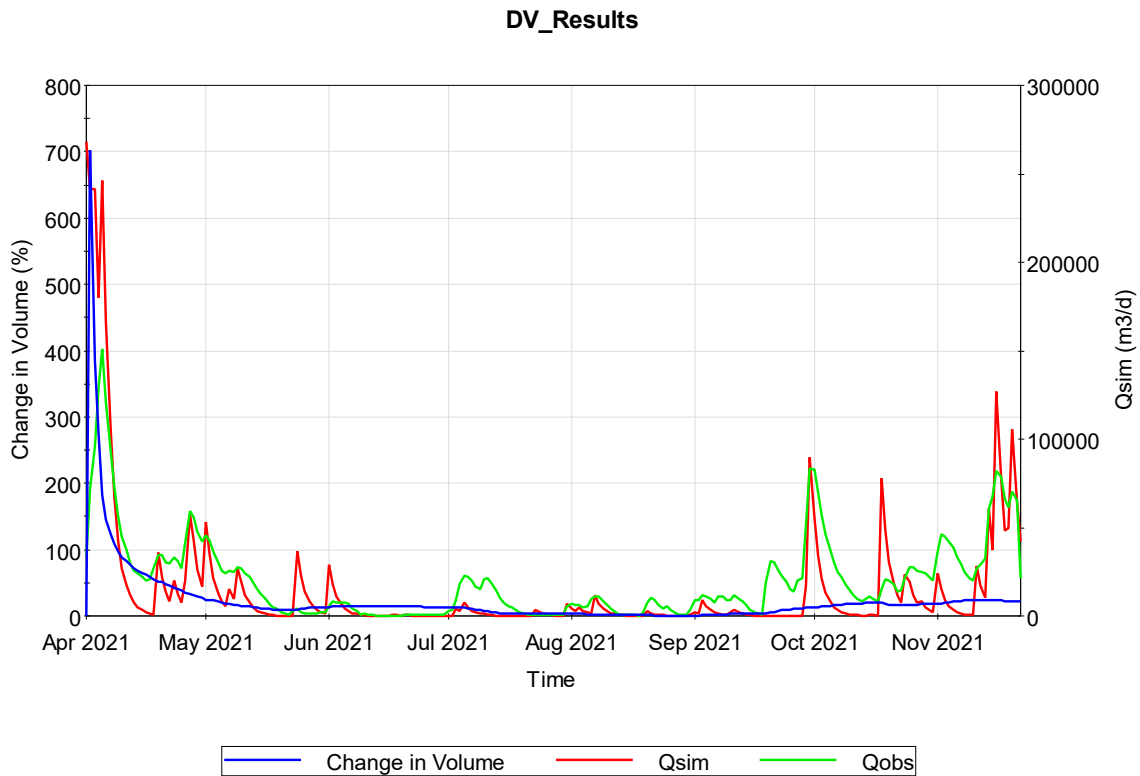


Figure 4.4 Simulated and Observed Flow Cumulative Volume Comparison at the Lake Outlet Assessment Point

The results presented on **Figure 4.3** indicate that there are differences between the precipitation recorded at the Collegeville Auto station and the precipitation patterns experienced at the site. There are several simulated flow events with corresponding high yields that are not reflected in the observed flow record. Conversely, there are several observed flow events that are not reflected in the simulated record due to the correspondingly low yields, calculated from the precipitation observed at the Collegeville Auto climate station. The plots were used to perform a visual comparison of the simulated and observed flows. The recession constant values were adjusted to match the hydrograph shapes. The resultant baseflow and surface runoff recession constants were determined to be 0.7 and 0.6, respectively.

4.1.4 Preparation of Inputs to WBM

The 50-year timeseries of daily yield (i.e., rainfall and snowmelt) simulated from the soil-water balance working model was input directly to the WBM.

The 50-year timeseries of daily yield, baseflow, and surface runoff depths simulated from the soil-water balance working model were used to generate average monthly runoff coefficients for each flow component. The simulated results were summarized into monthly totals, then averaged over the 50-year period, to produce average monthly values of yield, baseflow, and surface runoff depths. Ratios of average monthly baseflow depth and yield were used to generate average monthly baseflow runoff coefficients. Ratios of average monthly surface runoff depth and yield were used to generate average monthly surface runoff coefficients for application in the WBM.

Daily baseflow and surface runoff volumes were calculated at each assessment point by multiplying the respective runoff coefficients by the yield and catchment area. This methodology assumes that the groundwater flow divides follow the catchment boundaries, which is considered an appropriate assumption for the Project Area under baseline conditions, due to the higher hydraulic conductivity of the overburden material compared to the bedrock as presented in the Groundwater Modelling report (GHD, 2022c).

4.1.5 Comparison to Regional Hydrology

The average annual runoff coefficients and monthly flow distributions were calculated from the hydrometric records of similar watercourses in the region and compared to the baseline total flow metrics calculated at GB-DS7 on the site.

The daily flow records from the Halfway Brook near Sheet Harbour (ID 01EN003) and Beaver Bank near Kinsac (ID 01DG003) Water Survey Canada hydrometric stations were used to perform the comparison. The Halfway Brook near Sheet Harbour gauge has a drainage area of 16.9 km², which is comparable to Gold Brook catchment area of 15.3 km² at the GB-DS7 assessment point. The gauge is located a similar distance from the southern coast of the Atlantic Ocean, approximately 75 km to the west, and has a complete record length of 6-years from 1989 to 1994. The Beaver Bank near Kinsac gauge has a much larger drainage area of 96.9 km and is located further from the site. However, the dataset was included in the analysis because it has a long record of over 100 years. A 38-year subset of the record from 1981 to 2019 was used in the analysis. Both gauges are located on natural (unregulated) watercourses with undeveloped catchments.

Average annual runoff coefficients were calculated by dividing the runoff volume corresponding to the mean annual flows by the annual precipitation normals from nearby ECCC climate stations. The average annual runoff coefficient at both the Halfway Brook near Sheet Harbour and Beaver Bank near Kinsac gauges is 0.72, which is comparable to the runoff coefficient of 0.68 calculated for the site. **Figure 4.5** compares the average monthly flow distribution at the regional gauges to the flow distribution at the site. The percentages on the graph represent the fractions of average annual flow that occur in each month. The graph shows good agreement between the observed data and calculated baseline hydrology.

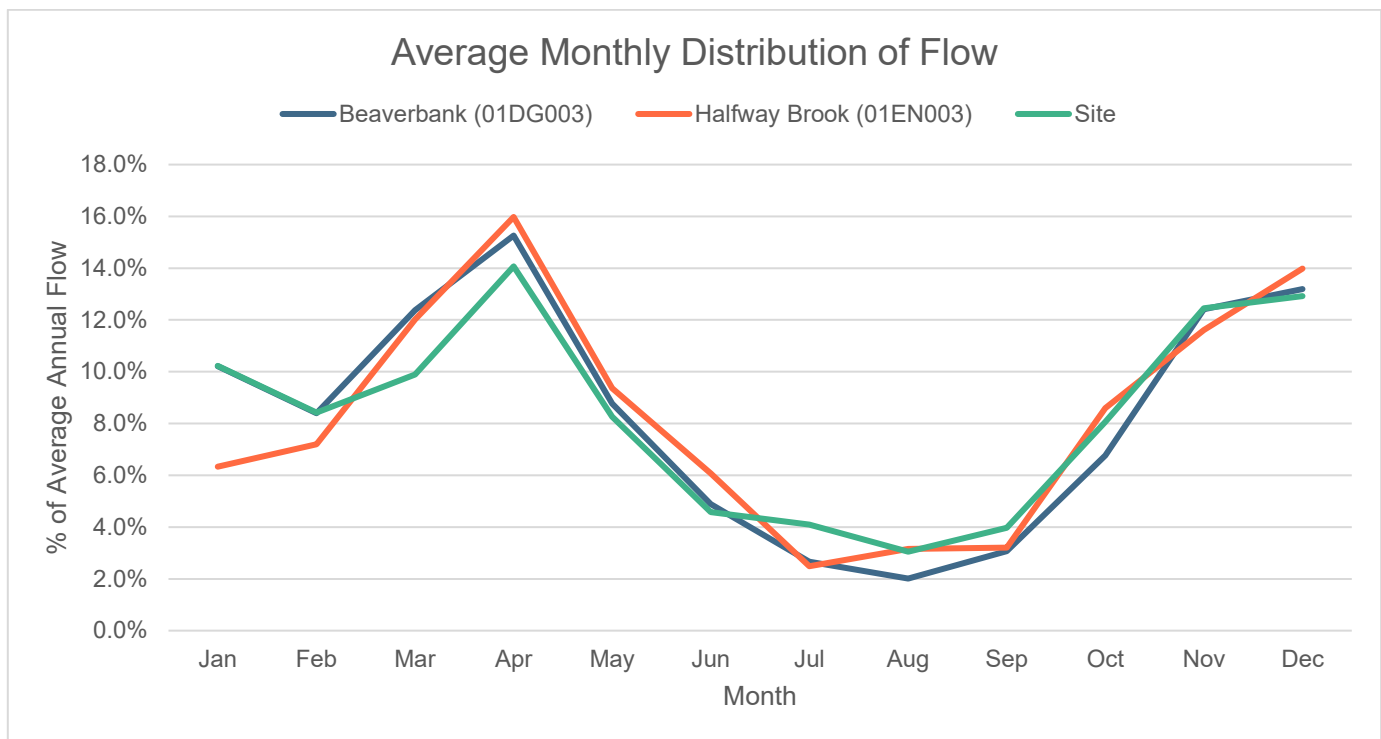


Figure 4.5 Average Monthly Flow Distribution Comparison

4.2 Operations and Closure

4.2.1 Operating Conditions

The proposed mine site includes a variety of different land cover types, including uncovered WRSAs, till and organics stockpiles, pit wall rock, a TMF, settling ponds, and the administration and employee accommodations areas. Hydrologic processes of the uncovered stockpiles and pit wall rock are complex, and at this stage of the project their soil properties are unknown; therefore, the evaporation, infiltration, and direct runoff from these surface were estimated using runoff coefficients determined at a mine site in Nova Scotia with similar mine processes and climate characteristics.

The surface water of the settling ponds are assumed to have a runoff coefficient of 1.00 due to the presence of standing water and an impermeable liner proposed in the design. The settling ponds were modelled as storage elements where lake evaporation is included as an output. The administration and employee accommodations areas were assumed to be comprised of an impervious land cover. Impervious areas were also assigned a runoff coefficient of 1.00. The water balance of the TMF was performed by Knight Piesold and the monthly discharge volumes from the TMF and water treatment facility were input directly to the WBM (Knight Piesold, 2022).

4.2.2 Closure Conditions

During closure, the WRSAs will be covered with the material from the till and organic stockpiles. A portion of the site water will be directed to the pits to form the pit lakes.

As part of the Project reclamation plans, the WRSAs will be covered with compacted till, topsoil, and seed. The modelling assumes progressive stockpile reclamation will occur immediately after they are fully developed. It is assumed that evapotranspiration from the covered WRSAs will be consistent with the evapotranspiration of the natural vegetated land cover that is equal to 0.32 of the annual yield. The direct runoff coefficient from the covered WRSAs was calculated assuming an infiltration factor of 0.4, which is equal to the sum of 0.1 for slope, 0.2 for soil, and 0.1

land cover from Table 3.1 of the Ontario Stormwater Management Planning and Design Manual (MOE, 2003). As a result, evapotranspiration, infiltration, and direct runoff from the covered WRSAs will be 0.32 (equal to $1 - 0.68$), 0.27 (0.4×0.68), and 0.41 ($(1 - 0.4) \times 0.68$), respectively.

4.2.3 Stockpile Seepage

Seepage volumes from the stockpiles were estimated as the difference between the infiltrated water and the sum of the groundwater recharge and absorption by the stockpile material. Groundwater recharge was assumed to be 0.18 of the yield, which is consistent with a BFI of 0.26, and the calibrated groundwater model (GHD, 2022c). The WBM applied the assumption that stockpiles are fully saturated to maximize the seepage from the WRSAs and provide a conservative estimate of contact water to the settling ponds for input to the PWQA.

4.2.4 Groundwater

In baseline conditions baseflow volumes are calculated assuming the groundwater flow patterns follow the catchment boundaries as described in Section 4.1.4. In post-development conditions the assumption that the groundwater flow divide follows the catchment boundaries is no longer valid. The development of the large open pits and lining of the TMF will alter the groundwater flow patterns from baseline conditions, which is demonstrated in the water table drawdown map presented in the Groundwater Modelling report (GHD, 2022c).

4.2.4.1 Baseflow

Baseflow volume variations to the natural lakes and watercourses were determined using the groundwater model of the Project (GHD, 2022c). The baseflow impacts were incorporated into the WBM as percent changes from baseline conditions at each assessment point.

4.2.4.2 Residual Passive Inflow

Groundwater inflow volumes to the open pits were also obtained from the groundwater model (GHD, 2022c). Average groundwater inflow rates to the East Pit increase to a peak rate of 620,000 m³/year at East EOM and stabilize at 170,000 m³/year after the pit lake has formed. Average groundwater inflow rates to the West Pit increase to a peak rate of 780,000 m³/year at West EOM and stabilize at 190,000 m³/year after the pit lake has formed.

4.2.5 Summary

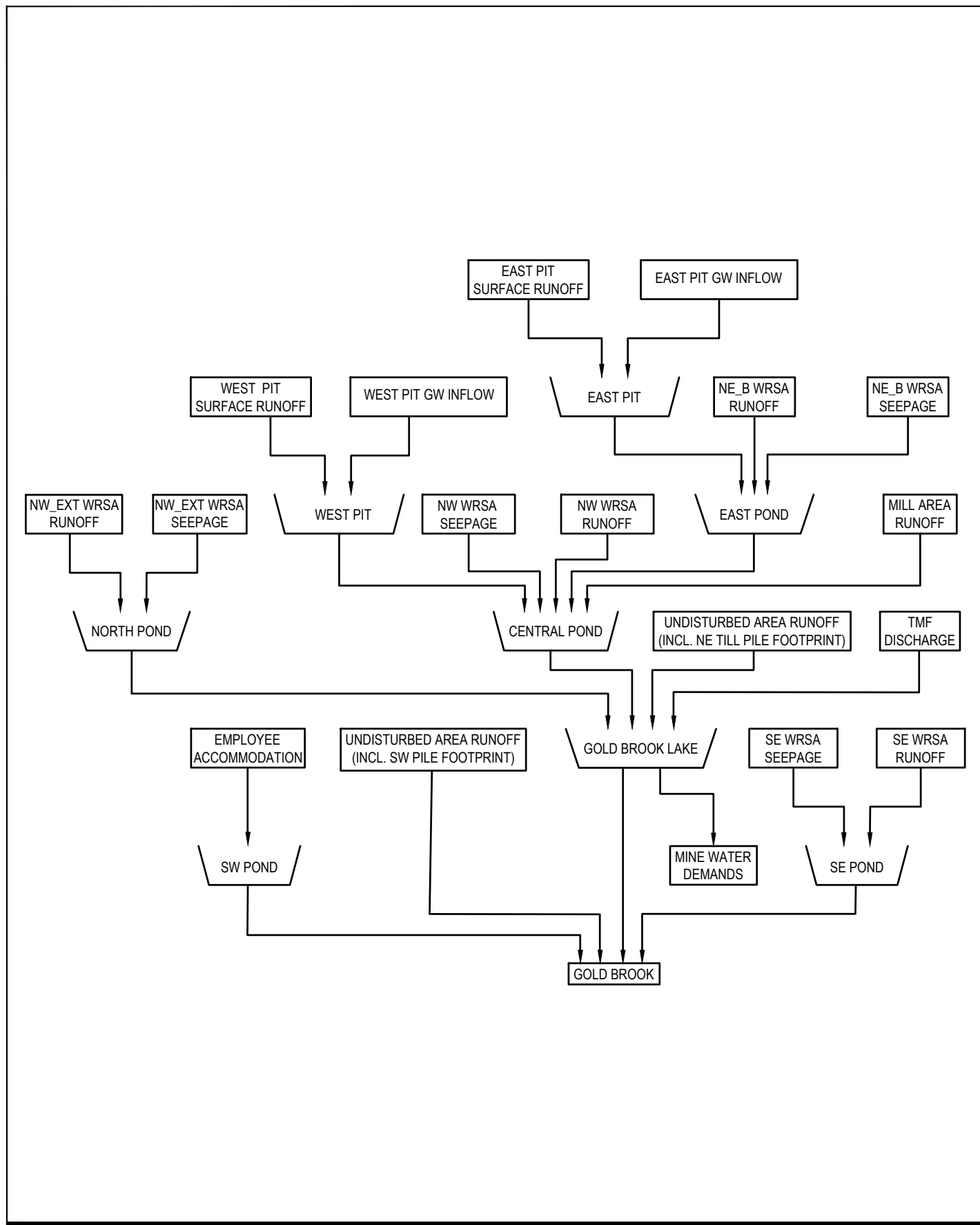
Table 4.1 provides a summary of the coefficients of the yield used to calculate direct runoff, evaporation, infiltration, groundwater recharge, and seepage from different land cover types of the proposed mine site. Monthly distributions of direct runoff from the natural areas, covered WRSAs and till/organics stockpiles were assumed to follow the average monthly runoff distribution of the baseline hydrology.

4.3 Site Water Distribution

The proposed mine water management system discharges through water treatment facilities to meet the regulated water quality criteria for site effluent. Several iterations of the mine water management plan were assessed before arriving at the plan presented in this report and EARD. For example, several options for the placement of the TMF were considered, including in a neighbouring watershed. A TMF options assessment was completed to assess the impacts of the two most feasible TMF locations on site operations and environmental impacts of the mine water management system. Following the selection of the TMF location and development of the mine site layout, different mine water management options were also considered, including variations of the volume and rate of site water discharge to the open pits to balance faster pit filling times with controlled flow reductions in Gold Brook.

Figure 4.6 to Figure 4.9 present flow diagrams, which map the transfer of water on-site and to the receiving environment for the operations, East EOM, West EOM, and closure phases of the mine development. Descriptions of

each flow diagram are provided in **Table 4.2** to **Table 4.5**. East EOM represents the time when the East Pit will be mined to its full potential and will begin to fill with water in accordance with the proposed mine reclamation plan. It is assumed that the till and organics stockpiles have been removed and/or used as cover material for the WRSAs. The till and organics stockpile areas will drain to their baseline receivers. West EOM represents the time when the West Pit will be mined to its full potential and will begin to fill with water in accordance with the proposed mine reclamation plan. It is assumed that the employee accommodations area will be removed and restored to baseline conditions. The closure phase represents the time when both the East Pit and West Pit have filled with water. Overflow from the pits will be directed to Gold Brook Lake.



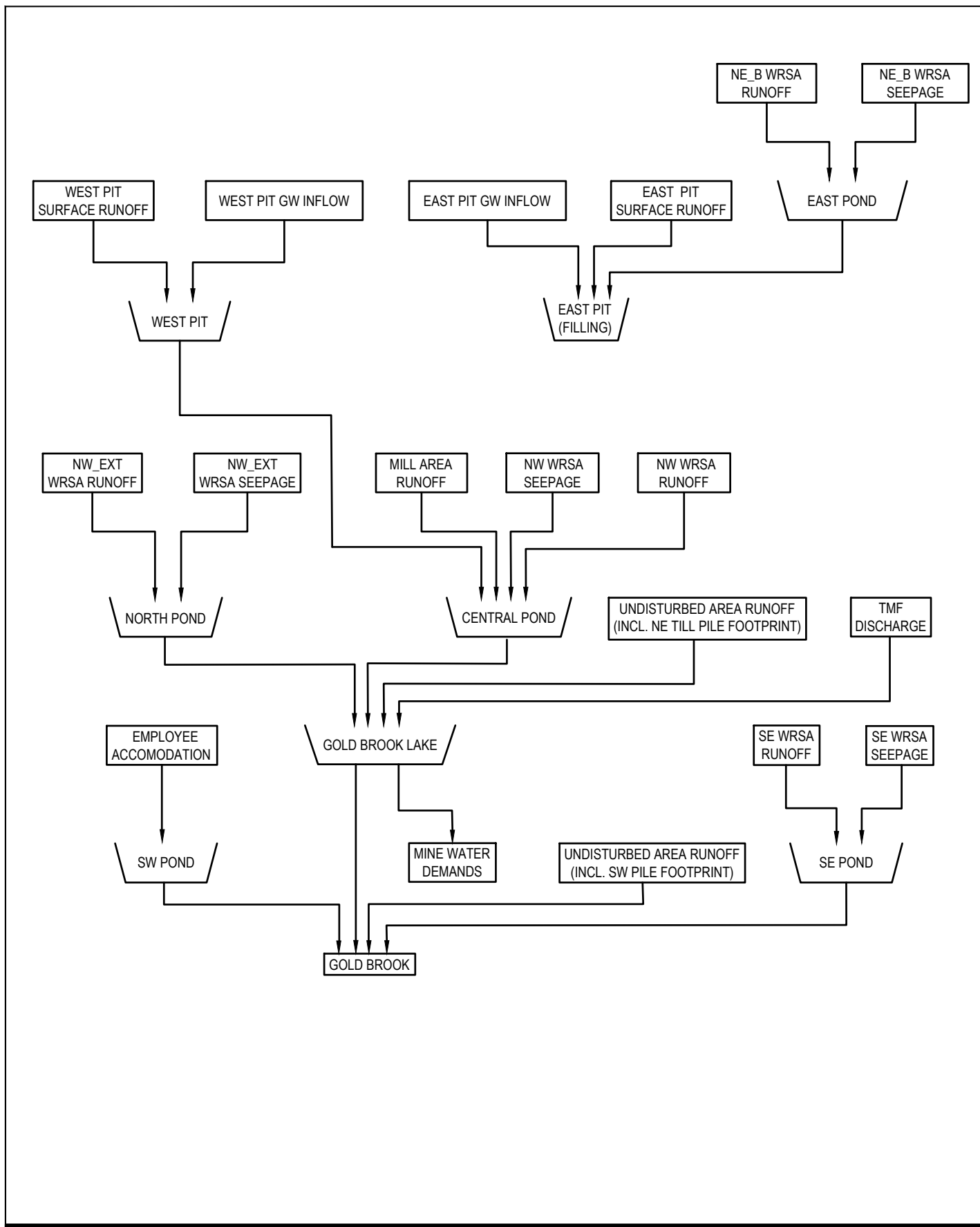
ANACONDA MINING INC.
GOLDBORO GOLD PROJECT

OPERATIONS FLOW DIAGRAM

WATER BALANCE REPORT

Project No. 11222385
Date April 2022

FIGURE 4.6



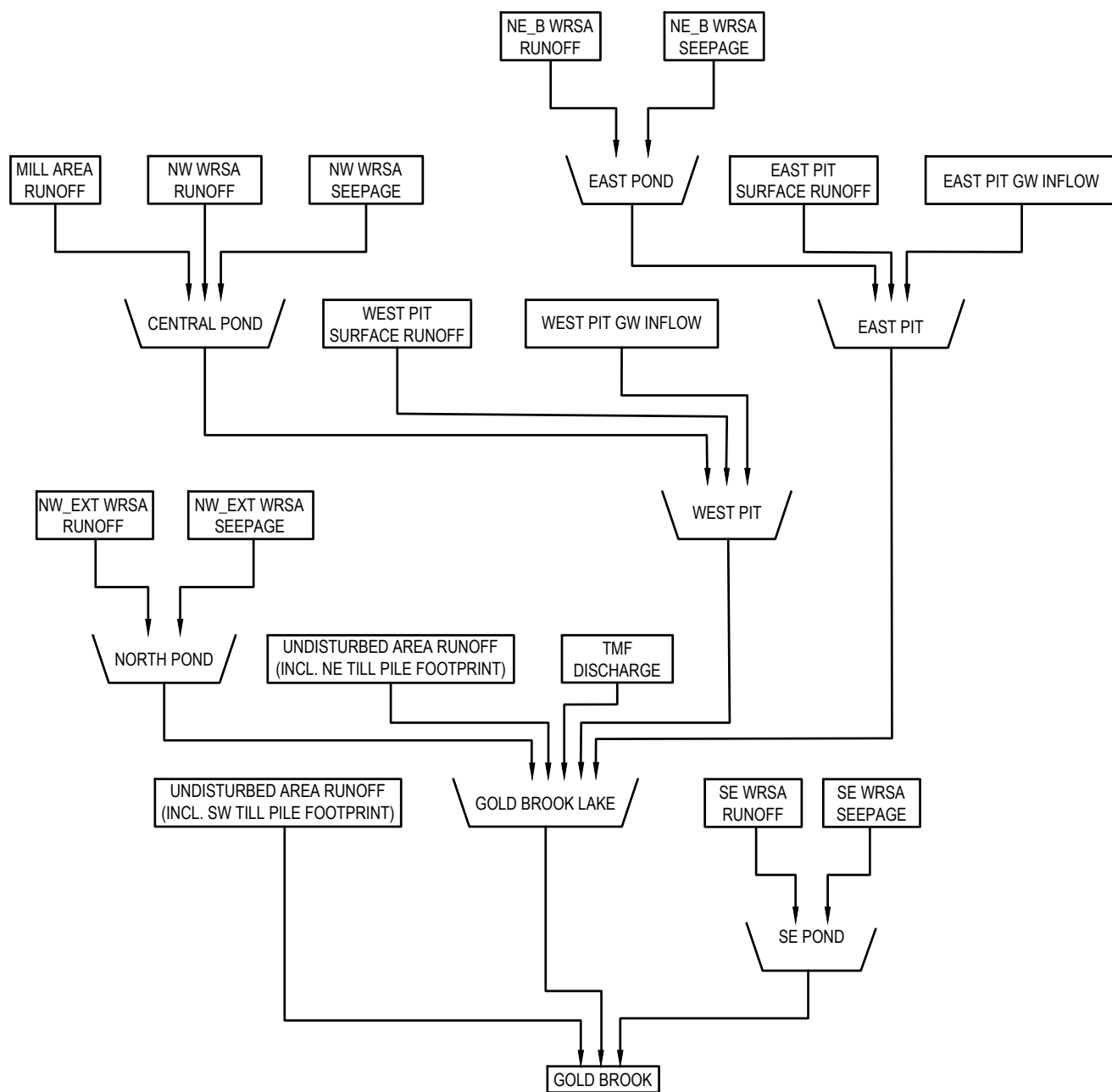
ANACONDA MONING INC.
GOLDBORO GOLD PROJECT

EAST EOM FLOW DIAGRAM

WATER BALANCE REPORT

Project No. 11222385
Date April 2022

FIGURE 4.7



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POST PIT FILLING DIAGRAM

WATER BALANCE REPORT

Project No. 11222385
Date April 2022

FIGURE 4.9

The settling ponds and open pits are modelled as storage elements in the WBM. Settling pond discharge occurs when the balance between the inputs, outputs, and stored water exceeds the permanent pool storage volumes of the ponds. The permanent pool storage volumes were assumed to be full at the beginning of the simulation. Details on settling pond design and dimensions are provided in the Stormwater Management Design – Hydrologic Modelling Report (GHD, 2022b). Settling pond discharge will either be directed to another settling pond, the pits, Gold Brook Lake or Gold Brook.

During operations, while the pits are being mined, sources of inflow to the pits include pit wall runoff generated by direct precipitation and groundwater inflows. Outflows include evaporation and dewatering to nearby settling ponds. The pumping rates used to dewater the pits are set equal to the difference between the inflows and evaporation, based on the assumption that the pit will be kept dry during operations.

After the pits have been mined to their full potential, they will begin to fill with water to form pit lakes, in accordance with the proposed mine reclamation plan. During this time, pit inflows include direct precipitation, groundwater inflow, and overflow from adjacent settling ponds to help reduce the time required to form the pit lakes and stabilize the groundwater flow patterns. The only outflow from the pits will be evaporation while they are filling. The pits will discharge to Gold Brook Lake after they are filled. The East Pit and West Pit have maximum capacities of 17.4 million m³ and 29.3 million m³, respectively, corresponding to an elevation of 50.8 m.a.s.l (CGVD2013). The East Pit will be backfilled with 9.5 million m³ of waste rock over 4 years beginning at the East EOM phase. It is assumed that the waste rock has a void space ratio of 0.30, which was estimated based on the waste rock properties of similar mining projects. As such, the volume of water required to fill the East Pit is reduced from 17.4 million m³ to 10.8 million m³.

The mine water demands for the mill, administration area, and employee accommodation areas will be met by Gold Brook Lake water reserves during operations.

5. Water Balance Results

This section of the report presents the results of the water balance analysis that have been calculated to address the study objectives defined in the Section 1.

5.1 Water Demands

The freshwater demand will be met by the water reserves in Gold Brook Lake. The freshwater demands for the mill, administration area, and employee accommodations area are 19 m³/hour, 2.1 m³/hour, and 18.8 m³/hour, respectively, during the operation of the mine (i.e., from the beginning of mine operations to the West EOM development phase).

Table 5.1 assesses the impact of the water demand on the average monthly and annual flow volumes at the Lake Outlet assessment point during the East EOM development phase.

The water demands result in a maximum reduction in the average monthly flow volume of 9.0% in the month of August during the East EOM development phase at the Gold Brook Lake outlet. It is assumed that there will be no water demand during and after the West EOM development phase, which represents the end of operations for the Project.

5.2 Site Water Balance

Table 5.2 to **Table 5.17** summarize the average monthly and annual water balance results for the settling ponds and pits during the East EOM, West EOM, and closure development phases. **Appendix A** provides the water balance summary tables for the settling ponds and pits for fifty (50) years of the mine life from the first year of operations into post-closure, after the pit lakes have formed. The flows presented in these tables were used to support the PWQA and water treatment study.

Table 5.18 and **Table 5.19** present the annual water balance of the East Pit and West Pit, respectively, over the life of the mine. Once the pit lakes are formed, overflow will be directed to Gold Brook Lake. **Table 5.18** demonstrates that the East Pit will be filled in Year 19, which is 11 years after it begins to fill with water. **Table 5.19** shows that the West Pit will be filled in Year 35, which is 24 years after it begins to fill with water. The pit filling calculations were performed using average historical climate inputs.

5.3 Impacts on the Receiving Environment

5.3.1 Flow Impacts

The average annual flow volumes during baseline, East EOM, West EOM, and closure development phases at each of the 29 assessment points are presented in **Table 5.20**. This table also includes the percent change in flow volume from baseline conditions to each of the post-development phases, which provides an overview of the impacts of the proposed mine development on the watercourses of the Gold Brook catchment.

The GB-DS7 assessment point represents the downstream limit of the water balance analysis. The maximum average annual flow reduction predicted at GB-DS7 is 15.6% during the West EOM development phase. It is expected that the maximum average annual flow reduction on Gold Brook during the West EOM development phase will be approximately 10% at the outlet of Seal Harbour Lake. This is due to the increased natural drainage of approximately 1830 ha; therefore, it is expected that the impacts of the Project on flow reduction during West EOM are limited to upstream of Seal Harbour Lake.

Appendix B includes summary tables and corresponding graphs of average monthly flow volumes and percent changes for the baseline, East EOM, West EOM, and closure development phases for each of the assessment points. The daily flow results are used to assess impacts to fish and fish habitats. The flow impacts are discussed in the surface water and fish and fish habitat chapters of the EARD.

5.3.2 Temperature Impacts

The impacts of the proposed mine development on the temperature regime of the watercourses in the Gold Brook catchment were estimated at a high level by comparing the percentage of total flow that is contributed by baseflow between baseline and East EOM, West EOM, and closure conditions. Baseflow temperatures are typically lower than water temperatures in a waterbody or watercourse, particularly in the warmer months. As a result, baseflow has a cooling effect on the temperature of the total flow in the watercourse.

In baseline conditions, baseflow represents approximately 26% of the total flow in the tributaries to Gold Brook Lake and Gold Brook, based on the BFI of 0.26. In Gold Brook, baseflow represents 1-10% of the total flow from GB-DS1 to GB-DS7. This is because Gold Brook Lake outflow, which includes runoff from the entire Gold Brook Lake drainage area, is incorporated into the surface flow component of the total flow.

The groundwater and water balance models predict that WC-14 and Gold Brook will experience a reduction in baseflow as a percentage of the total flow in the East EOM, West EOM, and closure development phases. Baseflow will be reduced to 10% of the total flow during the East EOM and West EOM development phases and 18% of total flow during closure at the WC-14-DS4 assessment point. The WC-14-DS4 assessment point is located on WC-14, at the inlet to Gold Brook Lake. The results at this assessment point represent the cumulative baseflow impacts along the watercourse. The baseflow reductions in this system can be attributed to the lining of the TMF that is located within the baseline catchment of WC-14, and the drawdown effect of the open pits on the groundwater table.

There will be no baseflow contributions to Gold Brook at the GB-DS1 assessment point due to the proximity of the open pits that drawdown the water table at this location, which is the source of baseflow to the brook. However, baseflow only represents 1% of the total flow at this location in baseline conditions. Baseflow will be reduced from 10% of the total flow in baseline conditions to 7% of the total flow during the East EOM development phase, and 9% of total flow during the West EOM and closure development phases at the GB-DS7 assessment point. The GB-DS7

assessment point is located on Gold Brook at the inlet to Seal Harbour Lake. Based on this assessment, impacts of the mine development on the temperature regime in Gold Brook are anticipated to be low.

5.3.3 Lake Level Impacts

The impact of the proposed mine development on the water levels in Gold Brook Lake were assessed by routing the baseline and West EOM daily flow records through the lake storage using the HEC-HMS software and comparing the corresponding lake level results. Lake inflow is equal to the sum of the total runoff from the natural drainage areas of the lake and discharge from a combination of the north settling pond, central settling pond, East Pit, West Pit, and TMF water treatment facility, depending on the mine development phase. Lake outflow is equal to lake inflow minus lake evaporation, water demand withdraws during operations and lake flow routing effects. The lake outflow is calculated at the Lake Outlet assessment point.

The assessment was performed using 50 realizations of the daily flow timeseries for each of the baseline and West EOM conditions based on 50 years of the historical climate record. The West EOM development phase was selected for this analysis, because the largest reductions in flow volume on Gold Brook are predicted to occur during this year on an average annual basis. The active storage volume of the lake was equated to a water surface elevation using a stage-storage relationship, calculated from the lidar for the site. It is assumed that the water surface elevation in the lidar represents permanent lake level, which would correspond to the invert elevation of the two 1,800 mm diameter corrugated steel pipe (CSP) culverts that control the outflow from the lake to Gold Brook.

The results presented on **Figure 5.1** show that there is a maximum reduction in lake level of approximately 15 cm, which corresponds to the maximum values in the baseline and West EOM daily flow timeseries. The graph plots the Gold Brook Lake active storage depths on the y-axis and probability of exceedance is on the x-axis. Low probabilities of exceedance correspond to higher lake depths and high probabilities of exceedance correspond to lower lake depths. This curve shows that during the wet periods the lake water level for West EOM conditions will be lower than in baseline conditions, and more importantly during low flow conditions the impacts are negligible.

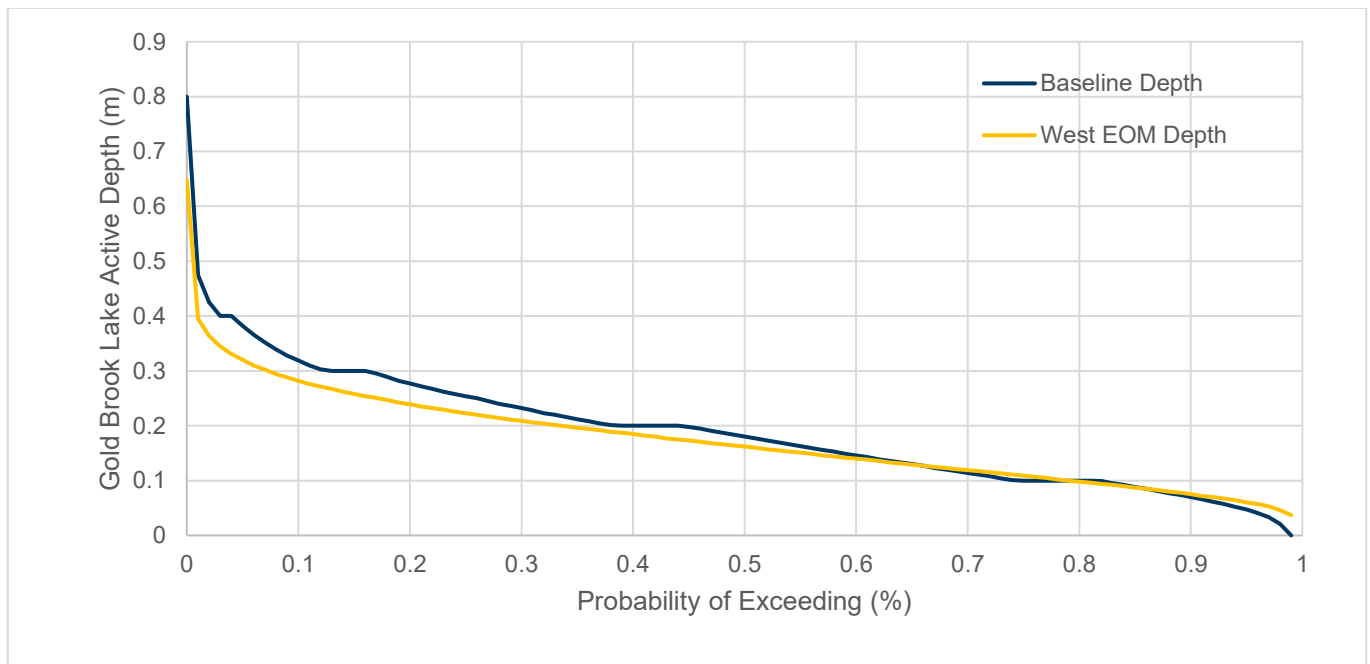


Figure 5.1 Comparison of Gold Brook Lake Active Depths between Baseline and West EOM Development Phases

5.4 Sensitivity Analysis

A sensitivity analysis was performed to assess the relevance of the meteorological parameters on the modelled results. The results presented in this report were calculated for average climate conditions. The model uses a 50 year timeseries of the daily yield as input and correspondingly simulates 50 realizations of the daily flow volume for each year of the mine, at each assessment point (including the pits and settling ponds). The 50 realizations provide statistical information on possible flow volumes based on the range of precipitation values in the historical climate record. The results are presented for each assessment point, and the East EOM, West EOM, and closure development phases.

Figure 5.2 presents the variation in annual flows at the Lake Outlet assessment point over the life of the mine, based on 50 realizations of the climate record. The low point in the graph around the year 2033 represents the West EOM scenario when both pits are filling with water. It is important to note that the model years do not correspond to the actual years of the mine development.

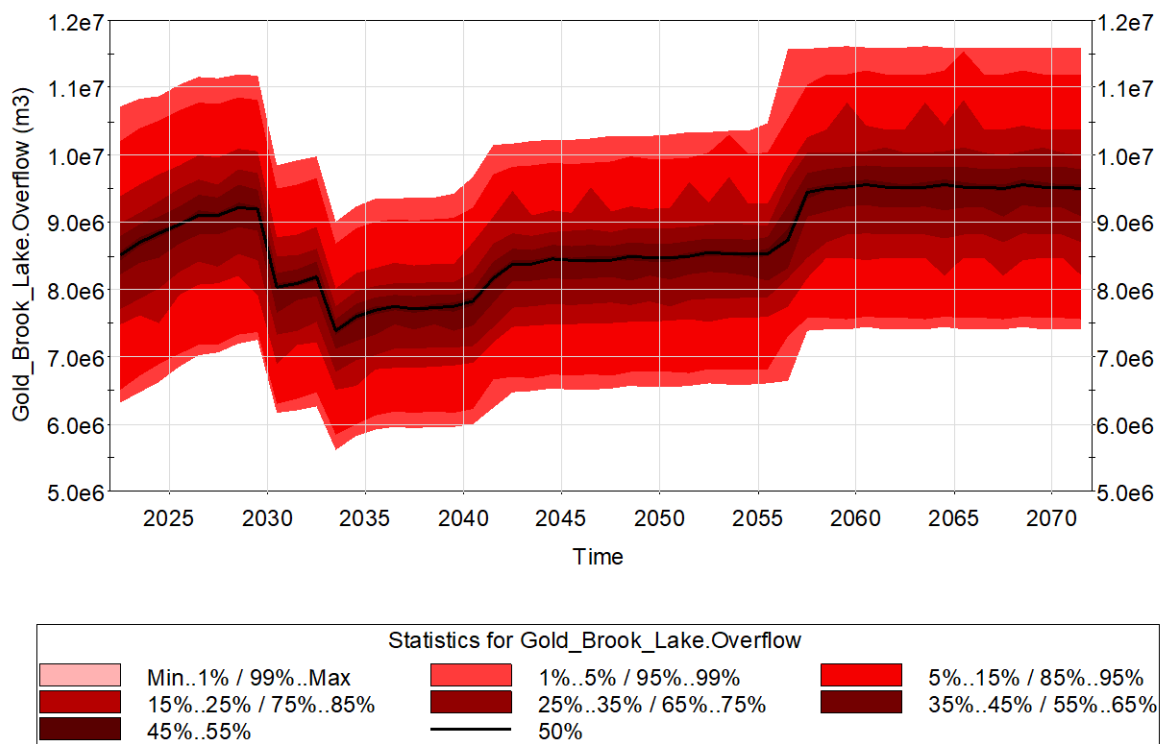


Figure 5.2 Annual Flow Volume Variability at the Lake Outlet Assessment Point

Table 5.21 presents the percent change in annual flows from baseline conditions calculated based on the average, 5th and 95th percentiles of annual flow. The results show that there is low expected variation of the percent change values across the flow statistics; therefore, application of the percent change in flow from baseline conditions as a metric for assessing the impact of the mine on the flow volumes within the Gold Brook catchment is not sensitive to climate inputs.

5.5 Climate Change Assessment

The projected climate change impacts were also assessed by applying climate change factors to the yield values. The historical and projected average annual precipitation totals were obtained Guysborough, Nova Scotia from the NSECC webpage (<https://climatechange.novascotia.ca/climate-data?tid=10#climate-data-map>, last accessed 10 April

2022). The projected average annual precipitation totals are provided for the 2020s, 2050s, and 2080s and were considered representative of the year 2020, 2050, and 2080, respectively. A linear interpolation was performed to estimate the climate change projected precipitation totals for all years in between. Finally, the percent increase from the historical value was calculated for each year to represent the climate change factors that are applied to the yield in the WBM.

Table 5.22 presents a comparison of the percent change values from baseline conditions calculated under historical and climate change scenarios. The results show that flow reductions are improved under the climate change scenario.

6. Summary

The water balance analysis results presented in this document can be used to simulate the transfer of water across the site to assess the ability of Gold Brook Lake to meet the freshwater demand and to provide flow estimates to support the PWQA and treatment facility design. The results were also used to assess the impact of the proposed mine development on the receiving environment in terms of the change in flow at 29 assessment points on watercourses in the Gold Brook catchment. All models including the WBM have inherent uncertainties. To address the uncertainties of this analysis, Anaconda will continuously monitor the site discharge locations during construction, operation, and post-mine closure to measure the impact of the proposed mine development on the receiving environment. The monitoring data will be used to update the models and adjust the water management system as required to mitigate impacts.

7. References

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Tables

Table 2.1 **Summary of Assessment Points**

Assessment Point	Catchment Area at Select Mine Phases (ha)				Description
	Baseline	East EOM	West EOM	Closure	
WC-69-US	61.86	61.86	61.86	61.86	Located on watercourse (WC) 69 upstream of the TMF. Provides an upstream control point for the fish and fish habitat effects assessment.
WC-22-US	184.55	184.55	184.55	184.55	Located on WC-22 immediately upstream of the TMF. Provides an upstream control point for the fish and fish habitat effects assessment.
WC-22-DS1	196.16	191.22	191.22	191.22	Located on WC-22 immediately downstream of the WC-22-US assessment point. Used to assess the direct impact of the TMF on flow.
WC-22-DS2	213.41	208.46	208.46	208.46	Located on WC-22 at the outlet to Gold Brook Lake. Used to assess the direct impact of the TMF on flow.
WC-50-DS	30.37	15.84	15.84	15.84	Located on WC-50 immediately upstream of its confluence with WC-14. Used to assess the direct impact of the TMF on flow.
WC-16-DS	13.74	9.37	9.37	9.37	Located on WC-16 immediately upstream of its confluence with WC-14. Used to assess the direct impact of the NE WRSA on flow.
WC-14-US	68.75	68.75	68.75	68.75	Located on WC-14 upstream of the mine infrastructure. Provides an upstream control point for the fish and fish habitat effects assessment.
WC-14-DS1	101.16	86.64	86.64	86.64	Located on WC-14 immediately downstream of its confluence with WC-50. Used to assess indirect impact of the TMF on flow.
WC-14-DS2	118.27	99.25	99.25	99.25	Located on WC-14 downstream of its confluence with WC-16 and immediately upstream of its confluence with WC-58. Used to assess indirect impacts of the TMF and NE WRSA on flow.
WC-14-DS3	171.30	105.72	105.72	105.72	Located on WC-14 immediately downstream of its confluence of WC-58. Used to assess indirect impacts of the TMF and NE WRSA on flow.
WC-14-DS4	182.11	116.72	116.72	116.72	Located on WC-14 at the outlet to Gold Brook Lake. Used to assess the indirect impacts of the TMF, NE WRSA, and organics stockpiles on flow.
WC-9-DS	58.86	42.02	42.02	42.02	Located on WC-9 at the outlet to Gold Brook Lake. Used to assess the direct impacts of the NE WRSA, SE till stockpile, and organics stockpiles on flow.
WC-51-US	106.85	106.85	106.85	106.85	Located on WC-51 immediately upstream of its confluence with WC-20. Provides An upstream control point for the fish and fish habitat effects assessment.
WC-20-DS1	136.13	125.95	125.95	125.95	Located on WC-20 immediately downstream of its confluence with WC-51. Used to assess the direct impact of the NW WRSA on flow.
WC-20-DS2	159.34	138.02	138.02	138.02	Located on WC-20 at the outlet to Gold Brook Lake. Used to assess the direct impact of the NW WRSA on flow.

Assessment Point	Catchment Area at Select Mine Phases (ha)				Description
	Baseline	East EOM	West EOM	Closure	
WC-20-DS	26.77	16.59	16.59	16.59	Located on WC-20 immediately upstream of its confluence with WC-51. Used to assess the direct impact of the NW WRSA on flow.
WC-3-DS1	29.19	11.75	11.75	11.75	Located on WC-3 upstream of the SW till stockpile. Used to assess the direct impact of the West Pit on flow.
WC-3-DS2	42.02	24.47	24.47	24.47	Located on WC-3 immediately upstream of its confluence with Gold Brook. Used to assess the direct impacts of the West Pit, SW till stockpile, and organics stockpiles on flow.
WC-55-DS	9.28	7.59	7.59	7.59	Located on WC-55 immediately upstream of its confluence with Gold Brook. Used to assess the direct impacts of the SW till stockpile, organics stockpiles, and employee accommodations area on flow.
WC-10-DS	7.12	1.55	1.55	1.55	Located on WC-10 immediately upstream of its confluence with Gold Brook. Used to assess the direct impact of the SE WRSA on flow.
WC-11-DS	61.42	45.75	45.75	45.75	Located on WC-11 immediately upstream of its confluence with Gold Brook. Used to assess the direct impacts of the East Pit, SE WRSA, and organic stockpiles on flow.
Lake Outlet	920.18	926.04	846.32	978.53	Located at the Gold Brook Lake outlet to Gold Brook. Used to simulate dilution water for the predictive water quality analysis. Also used to assess the direct and indirect impacts of all mine infrastructure that is upstream of the lake on outflow.
GB-DS1	962.91	941.55	861.83	994.04	Located on Gold Brook upstream of the flow split. Used to assess the impact of mine infrastructure on flow.
GB-DS2	971.70	960.85	881.13	1,013.34	Located on Gold Brook downstream of a flow split and the southwest settling pond discharge location. Used to simulate dilution water for the predictive water quality analysis. Also used to assess the impact of mine infrastructure on flow.
GB-DS3	1,049.35	1,001.36	921.64	1,053.85	Located on Gold Brook downstream of a flow split and upstream of the southeast settling pond discharge location. Used to assess the impact of mine infrastructure on flow.
GB-DS4	1,169.68	1,122.32	1,042.60	1,174.81	Located on Gold Brook downstream of the flow split convergence point and the southeast settling pond discharge location. Used to simulate dilution water for the predictive water quality analysis. Also used to assess the impact of mine infrastructure on flow.
GB-DS5	1,244.41	1,197.05	1,117.33	1,249.54	Located on Gold Brook downstream of the GB-DS4 assessment point. Used to assess the impact of mine infrastructure on flow.
GB-DS6	1,299.59	1,242.20	1,172.48	1,304.69	Located on Gold Brook downstream of the GB-DS5 assessment point. Used to simulate dilution water for the predictive water quality analysis. Also used to assess the impact of mine infrastructure on flow.

Assessment Point	Catchment Area at Select Mine Phases (ha)				Description
	Baseline	East EOM	West EOM	Closure	
GB-DS7	1,528.25	1,478.70	1,398.98	1,531.19	Located on Gold Brook at the outlet to Seal Harbour Lake. Used to assess the impact of mine infrastructure on flow.

Table 3.1 *Monthly and Annual Average Climate Data Calculated from the ECCC Deming and Truro Climate Stations*

Climate Variable	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Precipitation (mm)	116.1	94.8	111.8	119.6	110.1	100.4	109.1	104.2	106.8	137.0	158.7	140.6	1,409.2
Rainfall (mm)	86.3	64.0	86.6	109.7	109.4	100.4	109.1	104.2	106.8	137.0	155.6	117.7	1,286.8
Snowfall (mm)	29.8	30.8	25.2	10.0	0.7	0.0	0.0	0.0	0.0	0.1	3.1	22.9	122.4
Mean Temperature (°C)	-4.1	-4.5	-1.6	2.3	6.3	10.7	14.6	16.9	14.8	9.8	5.0	-0.6	
Lake Evaporation (mm)	0.0	0.0	0.0	0.0	89.9	102.0	117.8	96.1	69.0	40.3	0.0	0.0	515.1

Table 4.1 *Coefficients of Yield for Operating and Closure Conditions*

Surface Type	Direct Runoff /Direct Precipitation	Evaporation	Infiltration (Stockpiles)	Seepage (Stockpiles)	Groundwater Recharge
Natural Areas	0.50	0.32	n/a	n/a	0.18
Uncovered WRSAs*	0.05	0.05	0.90	0.72	0.18
Covered WRSAs	0.41	0.32	0.27	0.09	0.18
Till/Organics Stockpile*	0.50	0.32	0.18	0.0	0.18
Pit Wall Rock*	0.85	0.15	n/a	n/a	0.00
Open Water (Settling Pond, Pit Lake)	1.00	Lake Evaporation	n/a	n/a	0.00
Impervious Surfaces	1.00	0.00	n/a	n/a	0.00

Table 4.2 *Site Water Transfers During Operations (Year 1-8)*

Treatment Facilities and Open Pits	Sources of Inflow	Discharge Point
East settling pond	- Surface runoff from the northeast (NE) WRSA - Seepage from the NE WRSA - Surface runoff from the SE till stockpile - Surface runoff from various organics stockpiles - Dewatering pumped from the East Pit	Central settling pond
North settling pond	- Surface runoff from a portion of the northwest (NW) WRSA - Seepage from a portion of the NW WRSA	Gold Brook Lake
Central settling pond	- Surface runoff from a portion of the NW WRSA - Seepage from a portion of the NW WRSA - Surface runoff from various organics stockpiles - Surface runoff from the administrative areas - Dewatering pumped from the West Pit - Effluent pumped from the east settling pond	Gold Brook Lake
Southwest settling pond	- Surface runoff from the southwest (SW) till stockpile - Surface runoff from various organics stockpiles - Surface runoff from the employee accommodations area	Gold Brook
Southeast settling pond	- Surface runoff from the southeast (SE) WRSA - Seepage from the SE WRSA	Gold Brook
TMF water treatment system	- Discharge from the TMF area	Gold Brook Lake
East Pit	- Pit wall runoff - Groundwater inflow	East settling pond
West Pit	- Pit wall runoff - Groundwater inflow	Central settling pond

Table 4.3 *Site Water Transfers at East EOM*

Treatment Facilities and Open Pits	Sources of Inflow	Discharge Point
East settling pond	- Surface runoff from the NE WRSA - Seepage from the NE WRSA	East Pit
North settling pond	- Surface runoff from a portion of the NW WRSA - Seepage from the NW WRSA	Gold Brook Lake
Central settling pond	- Surface runoff from a portion of the NW WRSA - Seepage from a portion of the NW WRSA - Surface runoff from the administrative areas - Dewatering pumped from the West Pit	Gold Brook Lake
Southwest settling pond	- Surface runoff from the employee accommodations area	Gold Brook
Southeast settling pond	- Surface runoff from the SE WRSA - Seepage from the SE WRSA	Gold Brook
TMF water treatment system	- Discharge from the TMF area	Gold Brook Lake
East Pit	- Pit wall runoff - Groundwater inflow - Effluent pumped from the east settling pond	No discharge (filling)
West Pit	- Pit wall runoff - Groundwater inflow	Central settling pond

Table 4.4 *Site Water Transfers at West EOM*

Treatment Facilities and Open Pits	Sources of Inflow	Discharge Point
East settling pond	- Surface runoff from the NE WRSA - Seepage from the NE WRSA	East Pit
North settling pond	- Surface runoff from a portion of the NW WRSA - Seepage from a portion of the NW WRSA	Gold Brook Lake
Central settling pond	- Surface runoff from a portion of the NW WRSA - Seepage from a portion of the NW WRSA - Surface runoff from the administrative areas	West Pit
Southwest settling pond	- N/A	Decommissioned
Southeast settling pond	- Surface runoff from the SE WRSA - Seepage from the SE WRSA	Gold Brook
TMF water treatment system	- Discharge from the TMF area	Gold Brook Lake, East Pit
East Pit	- Pit wall runoff - Groundwater inflow - Effluent pumped from the east settling pond - A portion of the discharge from the TMF water treatment system	No discharge (filling)
West Pit	- Pit wall runoff - Groundwater inflow - Effluent pumped from the central settling pond	No discharge (filling)

Table 4.5 *Site Water Transfers at Closure*

Treatment Facilities and Open Pits	Sources of Inflow	Discharge Point
East settling pond	- Surface runoff from the NE WRSA - Seepage from NE WRSA	Gold Brook Lake
North settling pond	- Surface runoff from a portion of the NW WRSA - Seepage from a portion of the NW WRSA	Gold Brook Lake
Central settling pond	- Surface runoff from a portion of the NW WRSA - Seepage from a portion of the NW WRSA	Gold Brook Lake
Southwest settling pond	- N/A	Decommissioned
Southeast settling pond	- Surface runoff from the SE WRSA - Seepage from the SE WRSA	Gold Brook
TMF water treatment system	- Discharge from the TMF area	Gold Brook Lake
East Pit	- Direct precipitation - Groundwater inflow	Gold Brook Lake
West Pit	- Direct precipitation - Groundwater inflow	Gold Brook Lake

Table 5.1 *Impact of Water Demand on Average Monthly Flows at the Lake Outlet Assessment Point*

Month	Freshwater Demand (m3)				Lake Outlet Flow Volume at East EOM (m3)		
	Mill	Administration	Employee Accommodations	Total	w/o Demand	w/ Demand	Percent Change
Jan	14,136	1,562	13,987	29,686	808,147	778,462	-3.7%
Feb	12,768	1,411	12,634	26,813	673,901	647,088	-4.0%
Mar	14,136	1,562	13,987	29,686	793,321	763,635	-3.7%
Apr	13,680	1,512	13,536	28,728	1,087,911	1,059,183	-2.6%
May	14,136	1,562	13,987	29,686	672,139	642,453	-4.4%
Jun	13,680	1,512	13,536	28,728	424,841	396,113	-6.8%
Jul	14,136	1,562	13,987	29,686	395,298	365,612	-7.5%
Aug	14,136	1,562	13,987	29,686	329,875	300,190	-9.0%
Sep	13,680	1,512	13,536	28,728	406,593	377,865	-7.1%
Oct	14,136	1,562	13,987	29,686	702,542	672,856	-4.2%
Nov	13,680	1,512	13,536	28,728	992,677	963,949	-2.9%
Dec	14,136	1,562	13,987	29,686	1,031,888	1,002,202	-2.9%
Annual	166,440	18,396	164,688	349,524	8,319,133	7,969,609	-4.2%

Table 5.2 *North Pond Water Balance at East EOM*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,045	1,632	12,677	0	12,677	12,677	0
Feb	8,121	1,200	9,321	0	9,321	9,321	0
Mar	11,252	1,844	13,096	0	13,096	13,096	0
Apr	14,766	2,420	17,185	0	17,185	17,185	0
May	8,999	1,803	10,802	199	10,603	10,802	0
Jun	5,598	1,629	7,227	202	7,025	7,227	0
Jul	5,250	1,755	7,005	233	6,772	7,005	0
Aug	3,761	1,618	5,379	176	5,203	5,379	0
Sep	4,555	1,714	6,269	128	6,141	6,269	0
Oct	9,413	2,234	11,647	90	11,557	11,647	0
Nov	13,810	2,490	16,300	0	16,300	16,300	0
Dec	14,174	2,129	16,303	0	16,303	16,303	0
Annual	110,744	22,468	133,211	1,028	132,183	133,211	0

Table 5.3 *North Pond Water Balance at West EOM*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,137	1,645	12,782	0	12,782	12,782	0
Feb	8,283	1,224	9,506	0	9,506	9,506	0
Mar	11,254	1,844	13,099	0	13,099	13,099	0
Apr	14,970	2,453	17,423	0	17,423	17,423	0
May	8,923	1,788	10,711	198	10,513	10,711	0
Jun	5,545	1,614	7,159	198	6,961	7,159	0
Jul	5,261	1,759	7,020	232	6,788	7,020	0
Aug	3,806	1,638	5,444	178	5,266	5,444	0
Sep	4,514	1,699	6,213	128	6,085	6,213	0
Oct	9,342	2,217	11,560	90	11,470	11,560	0
Nov	14,203	2,561	16,763	0	16,763	16,763	0
Dec	14,089	2,116	16,205	0	16,205	16,205	0
Annual	111,327	22,558	133,885	1,023	132,861	133,884	1

Table 5.4 *East Pond Water Balance at East EOM*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	13,990	2,098	0	16,088	0	16,088	16,088	0
Feb	10,286	1,543	0	11,829	0	11,829	11,829	0
Mar	14,228	2,371	0	16,598	0	16,598	16,598	0
Apr	18,671	3,111	0	21,782	0	21,782	21,782	0
May	11,336	2,318	0	13,655	176	13,478	13,654	1
Jun	6,986	2,095	0	9,081	179	8,902	9,081	0
Jul	6,522	2,257	0	8,778	206	8,572	8,778	0
Aug	4,625	2,080	0	6,705	155	6,550	6,705	0
Sep	5,634	2,204	0	7,838	113	7,725	7,838	0
Oct	11,812	2,873	0	14,685	80	14,605	14,685	0
Nov	17,433	3,201	0	20,634	0	20,634	20,634	0
Dec	17,948	2,737	0	20,685	0	20,685	20,685	0
Annual	139,471	28,888	0	168,358	909	167,448	168,357	1

Table 5.5 *East Pond Water Balance at West EOM*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,106	2,116	0	16,221	0	16,221	16,221	0
Feb	10,491	1,573	0	12,064	0	12,064	12,064	0
Mar	14,231	2,371	0	16,602	0	16,602	16,602	0
Apr	18,929	3,154	0	22,084	0	22,084	22,084	0
May	11,241	2,299	0	13,540	175	13,365	13,540	0
Jun	6,920	2,075	0	8,995	175	8,820	8,995	0
Jul	6,536	2,262	0	8,797	205	8,592	8,797	0
Aug	4,681	2,106	0	6,787	157	6,629	6,786	1
Sep	5,584	2,184	0	7,768	113	7,655	7,768	0
Oct	11,724	2,851	0	14,575	80	14,495	14,575	0
Nov	17,929	3,292	0	21,221	0	21,221	21,221	0
Dec	17,840	2,721	0	20,561	0	20,561	20,561	0
Annual	140,212	29,004	0	169,215	905	168,309	169,214	1

Table 5.6 **Central Pond Water Balance at East EOM**

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,501	2,120	0	86,634	119,255	0	119,255	119,255	0
Feb	22,426	1,559	0	73,850	97,835	0	97,835	97,835	0
Mar	32,869	2,396	0	89,943	125,207	0	125,207	125,207	0
Apr	43,134	3,144	0	100,162	146,439	0	146,439	146,439	0
May	29,537	2,343	0	91,363	123,243	1,007	122,236	123,243	0
Jun	23,401	2,117	0	85,351	110,869	1,106	109,763	110,869	0
Jul	24,192	2,280	0	90,437	116,909	1,320	115,589	116,909	0
Aug	20,900	2,102	0	88,051	111,054	1,077	109,977	111,054	0
Sep	22,882	2,227	0	88,666	113,774	748	113,026	113,774	0
Oct	34,341	2,903	0	99,509	136,753	452	136,301	136,753	1
Nov	42,585	3,235	0	101,116	146,936	0	146,936	146,936	0
Dec	39,487	2,766	0	99,501	141,753	0	141,753	141,753	0
Annual	366,255	29,192	0	1,094,583	1,490,027	5,710	1,484,317	1,490,027	0

Table 5.7 **Central Pond Water Balance at West EOM**

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,755	2,138	0	0	32,892	0	32,892	32,892	0
Feb	22,872	1,590	0	0	24,462	0	24,462	24,462	0
Mar	32,876	2,396	0	0	35,272	0	35,272	35,272	0
Apr	43,731	3,187	0	0	46,918	0	46,918	46,918	0
May	29,289	2,323	0	0	31,612	419	31,193	31,612	0
Jun	23,179	2,097	0	0	25,276	419	24,857	25,276	0
Jul	24,244	2,285	0	0	26,529	490	26,039	26,529	0
Aug	21,153	2,128	0	0	23,281	376	22,905	23,281	0
Sep	22,677	2,207	0	0	24,884	270	24,614	24,884	0
Oct	34,084	2,881	0	0	36,965	191	36,774	36,965	0
Nov	43,797	3,327	0	0	47,124	0	47,124	47,124	0
Dec	39,249	2,749	0	0	41,999	0	41,999	41,999	0
Annual	367,906	29,308	0	0	397,214	2,165	395,049	397,214	0

Table 5.8 Southwest Pond Water Balance at East EOM

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,810	0	2,810	0	2,810	2,810	0
Feb	2,066	0	2,066	0	2,066	2,066	0
Mar	3,175	0	3,175	0	3,175	3,175	0
Apr	4,167	0	4,167	0	4,167	4,167	0
May	3,105	0	3,105	348	2,781	3,129	-24
Jun	2,806	0	2,806	382	2,430	2,812	-6
Jul	3,022	0	3,022	456	2,566	3,022	0
Aug	2,786	0	2,786	372	2,416	2,788	-2
Sep	2,951	0	2,951	258	2,675	2,933	18
Oct	3,847	0	3,847	156	3,686	3,842	5
Nov	4,287	0	4,287	0	4,278	4,278	9
Dec	3,666	0	3,666	0	3,666	3,666	0
Annual	38,688	0	38,688	1,972	36,716	38,688	0

Table 5.9 Southwest Pond Water Balance at West EOM

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,125	0	2,125	0	2,125	2,125	0
Feb	1,580	0	1,580	0	1,580	1,580	0
Mar	2,190	0	2,190	0	2,190	2,190	0
Apr	2,876	0	2,876	0	2,876	2,876	0
May	1,778	0	1,778	348	1,460	1,808	-30
Jun	1,197	0	1,197	382	833	1,215	-18
Jul	1,174	0	1,174	456	733	1,189	-15
Aug	923	0	923	372	552	924	-1
Sep	1,058	0	1,058	258	761	1,020	38
Oct	1,941	0	1,941	156	1,774	1,930	11
Nov	2,774	0	2,774	0	2,762	2,762	12
Dec	2,701	0	2,701	0	2,701	2,701	0
Annual	22,317	0	22,317	1,972	20,347	22,319	-2

Table 5.10 Southeast Pond Water Balance at East EOM

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,866	3,320	25,187	0	25,187	25,187	0
Feb	16,077	2,441	18,519	0	18,519	18,519	0
Mar	22,207	3,752	25,959	0	25,959	25,959	0
Apr	29,143	4,924	34,066	0	34,066	34,066	0
May	17,639	3,669	21,307	421	20,910	21,331	-24
Jun	10,783	3,316	14,099	463	13,640	14,103	-4
Jul	10,027	3,571	13,599	552	13,046	13,598	1
Aug	7,049	3,292	10,341	450	9,888	10,338	3
Sep	8,629	3,487	12,117	313	11,795	12,108	9
Oct	18,320	4,546	22,865	189	22,671	22,860	5
Nov	27,172	5,066	32,238	0	32,228	32,228	10
Dec	28,047	4,332	32,379	0	32,379	32,379	0
Annual	216,959	45,716	262,676	2,387	260,288	262,675	1

Table 5.11 Southeast Pond Water Balance at West EOM

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,048	3,348	25,396	0	25,396	25,396	0
Feb	16,397	2,490	18,887	0	18,887	18,887	0
Mar	22,212	3,753	25,965	0	25,965	25,965	0
Apr	29,546	4,992	34,538	0	34,538	34,538	0
May	17,490	3,638	21,128	421	20,731	21,152	-24
Jun	10,681	3,284	13,965	463	13,512	13,975	-10
Jul	10,049	3,579	13,628	552	13,074	13,626	2
Aug	7,134	3,332	10,466	450	10,013	10,463	3
Sep	8,552	3,456	12,009	313	11,687	12,000	9
Oct	18,183	4,512	22,695	189	22,500	22,689	6
Nov	27,945	5,210	33,155	0	33,143	33,143	12
Dec	27,878	4,306	32,184	0	32,184	32,184	0
Annual	218,115	45,900	264,016	2,387	261,630	264,017	-1

Table 5.12 East Pit Water Balance at East EOM

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,655	55,740	0	16,088	101,483	0	0	0	0	101,483
Feb	21,804	49,697	0	11,829	83,330	0	0	0	0	83,330
Mar	33,510	54,304	0	16,598	104,412	0	0	0	0	104,412
Apr	43,975	51,833	0	21,782	117,590	0	0	0	0	117,590
May	32,767	52,819	0	13,478	99,064	26,672	0	0	26,672	72,392
Jun	29,613	50,396	0	8,902	88,911	29,286	0	0	29,286	59,625
Jul	31,896	51,334	0	8,572	91,802	34,949	0	0	34,949	56,853
Aug	29,404	50,579	0	6,550	86,533	28,511	0	0	28,511	58,022
Sep	31,148	48,229	0	7,725	87,102	19,811	0	0	19,811	67,291
Oct	40,600	49,094	0	14,605	104,299	11,956	0	0	11,956	92,343
Nov	45,248	46,792	0	20,634	112,674	0	0	0	0	112,674
Dec	38,690	47,609	0	20,685	106,984	0	0	0	0	106,984
Annual	408,310	608,426	0	167,448	1,184,184	151,185	0	0	151,185	1,032,999

Table 5.13 East Pit Water Balance at West EOM

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,901	29,354	0	16,221	75,476	0	0	0	0	75,476
Feb	22,238	26,379	0	12,064	60,681	0	0	0	0	60,681
Mar	33,517	29,057	0	16,602	79,176	0	0	0	0	79,176
Apr	44,584	27,971	84,953	22,084	179,592	0	0	0	0	179,592
May	32,492	28,749	76,582	13,365	151,188	26,672	0	0	26,672	124,516
Jun	29,332	27,673	64,414	8,820	130,239	29,286	0	0	29,286	100,953
Jul	31,965	28,442	66,004	8,592	135,003	34,949	0	0	34,949	100,054
Aug	29,760	28,286	63,311	6,629	127,986	28,511	0	0	28,511	99,475
Sep	30,869	27,224	69,404	7,655	135,152	19,811	0	0	19,811	115,341
Oct	40,297	27,978	93,832	14,495	176,602	11,956	0	0	11,956	164,646
Nov	46,535	26,927	106,114	21,221	200,797	0	0	0	0	200,797
Dec	38,457	27,671	104,231	20,561	190,920	0	0	0	0	190,920
Annual	409,947	335,711	728,845	168,309	1,642,812	151,185	0	0	151,185	1,491,627

Table 5.14 East Pit Water Balance at Closure

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,914	14,699	0	16,229	60,842	0	0	60,842	60,842	0
Feb	22,864	13,276	0	12,404	48,544	0	0	48,544	48,544	0
Mar	33,657	14,699	0	16,671	65,027	0	0	65,026	65,026	1
Apr	44,322	14,225	0	21,954	80,501	0	0	80,500	80,500	1
May	33,473	14,699	0	13,771	61,943	26,672	0	36,293	62,965	-1,022
Jun	29,176	14,225	0	8,772	52,173	29,286	0	23,881	53,167	-994
Jul	32,478	14,699	0	8,733	55,910	34,949	0	22,872	57,821	-1,911
Aug	30,056	14,699	0	6,697	51,452	28,511	0	21,275	49,786	1,666
Sep	30,927	14,225	0	7,668	52,820	19,811	0	31,144	50,955	1,865
Oct	40,523	14,699	0	14,576	69,798	11,956	0	57,447	69,403	395
Nov	45,275	14,225	0	20,647	80,147	0	0	80,147	80,147	0
Dec	38,304	14,699	0	20,479	73,482	0	0	73,482	73,482	0
Annual	410,969	173,069	0	168,601	752,639	151,185	0	601,453	752,638	1

Table 5.15 West Pit Water Balance at East EOM

Month	Inflow Summary (m3)				Outflow Summary				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	34,647	58,211	0	92,858	6,114	86,634	0	92,748	110
Feb	25,475	52,799	0	78,274	4,496	73,850	0	78,346	-72
Mar	39,151	58,701	0	97,852	6,909	89,943	0	96,852	1,000
Apr	51,378	57,053	0	108,431	9,067	100,162	0	109,229	-798
May	38,283	59,208	0	97,491	6,756	91,363	0	98,119	-628
Jun	34,598	57,543	0	92,141	6,106	85,351	0	91,457	684
Jul	37,266	59,714	0	96,980	6,576	90,437	0	97,013	-33
Aug	34,354	59,971	0	94,325	6,062	88,051	0	94,113	212
Sep	36,391	58,282	0	94,673	6,422	88,666	0	95,088	-415
Oct	47,435	60,478	0	107,913	8,371	99,509	0	107,880	33
Nov	52,865	58,772	0	111,637	9,329	101,116	0	110,445	1,192
Dec	45,203	60,984	0	106,187	7,977	99,501	0	107,478	-1,291
Annual	477,046	701,716	0	1,178,762	84,185	1,094,583	0	1,178,768	-6

Table 5.16 West Pit Water Balance at West EOM

Month	Inflow Summary (m3)				Outflow Summary				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,100	67,090	32,892	141,082	0	0	0	0	141,082
Feb	30,566	60,436	24,462	115,464	0	0	0	0	115,464
Mar	46,070	66,732	35,272	148,074	0	0	0	0	148,074
Apr	61,282	64,401	46,918	172,601	0	0	0	0	172,601
May	44,661	66,363	31,193	142,217	36,661	0	0	36,661	105,556
Jun	40,318	64,043	24,857	129,218	40,254	0	0	40,254	88,964
Jul	43,937	65,993	26,039	135,969	48,039	0	0	48,039	87,930
Aug	40,906	65,805	22,905	129,616	39,190	0	0	39,190	90,426
Sep	42,430	63,503	24,614	130,547	27,230	0	0	27,230	103,317
Oct	55,389	65,435	36,774	157,598	16,434	0	0	16,434	141,164
Nov	63,964	63,145	47,124	174,233	0	0	0	0	174,233
Dec	52,861	65,065	41,999	159,925	0	0	0	0	159,925
Annual	563,484	778,011	395,049	1,736,544	207,808	0	0	207,808	1,528,736

Table 5.17 West Pit Water Balance at Closure

Month	Inflow Summary (m3)				Outflow Summary				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,118	16,256	32,907	90,281	0	0	90,177	90,177	104
Feb	31,427	14,683	25,151	71,261	0	0	70,189	70,189	1,072
Mar	46,262	16,256	35,419	97,937	0	0	96,578	96,578	1,359
Apr	60,921	15,731	46,642	123,294	0	0	125,402	125,402	-2,108
May	46,009	16,256	32,141	94,406	36,661	0	61,210	97,871	-3,465
Jun	40,104	15,731	24,724	80,559	40,254	0	41,271	81,525	-966
Jul	44,642	16,256	26,463	87,361	48,039	0	41,563	89,602	-2,241
Aug	41,313	16,256	23,137	80,706	39,190	0	38,861	78,051	2,655
Sep	42,510	15,731	24,659	82,900	27,230	0	54,426	81,656	1,244
Oct	55,700	16,256	36,980	108,936	16,434	0	90,601	107,035	1,901
Nov	62,232	15,731	45,848	123,811	0	0	122,007	122,007	1,804
Dec	52,650	16,256	41,831	110,737	0	0	112,468	112,468	-1,731
Annual	564,888	191,399	395,902	1,152,189	207,808	0	944,753	1,152,561	-372

Table 5.18 East Pit Filling Summary

Mine Year	Inflow Summary (m3)					Outflow Summary (m3)				Storage (m3)	
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflow	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	Δ Storage	Cumulative Storage
1	348,640	41,145	0	0	389,785	61,525	327,577	0	389,102	683	683
2	348,843	123,663	0	0	472,506	61,561	410,646	0	472,207	299	982
3	347,376	206,859	0	0	554,235	61,302	492,872	0	554,174	61	1,043
4	348,411	288,924	0	0	637,335	61,484	575,428	0	636,912	423	1,466
5	348,846	371,441	0	0	720,287	61,561	658,657	0	720,218	69	1,535
6	348,587	453,958	0	0	802,545	61,515	740,685	0	802,200	345	1,880
7	350,011	538,059	0	0	888,070	61,767	826,109	0	887,876	194	2,074
8	347,159	619,219	0	0	966,378	61,263	904,808	0	966,071	307	2,381
9	408,309	608,427	0	167,449	1,184,185	151,185	0	0	151,185	1,033,000	1,035,381
10	410,327	503,812	0	168,245	1,082,384	151,185	0	0	151,185	931,199	1,966,580
11	410,661	400,147	0	168,582	979,390	151,185	0	0	151,185	828,205	2,794,785
12	409,947	335,712	728,844	168,309	1,642,812	151,185	0	0	151,185	1,491,627	4,286,412
13	408,565	314,044	1,045,000	167,369	1,934,978	151,185	0	0	151,185	1,783,793	6,070,205
14	408,937	292,376	253,104	167,806	1,122,223	151,185	0	0	151,185	971,038	7,041,243
15	410,304	271,419	2,940	168,606	853,269	151,185	0	0	151,185	702,084	7,743,327
16	409,495	248,980	0	167,994	826,469	151,185	0	0	151,185	675,284	8,418,611
17	410,598	227,311	0	168,328	806,237	151,185	0	0	151,185	655,052	9,073,663
18	408,908	205,643	0	167,951	782,502	151,185	0	0	151,185	631,317	9,704,980
19	410,383	184,449	0	168,605	763,437	151,185	0	66,387	217,572	545,865	10,250,845
20	409,335	173,067	0	167,888	750,290	151,185	0	467,651	618,836	131,454	10,382,299
21	411,691	173,067	0	168,800	753,558	151,185	0	602,373	753,558	0	10,382,299
22	409,869	173,067	0	168,290	751,226	151,185	0	600,040	751,225	1	10,382,300
23	410,555	173,541	0	168,614	752,710	151,185	0	601,525	752,710	0	10,382,300
24	410,268	173,067	0	168,515	751,850	151,185	0	600,665	751,850	0	10,382,300
25	411,574	173,067	0	168,916	753,557	151,185	0	602,371	753,556	1	10,382,301
26	409,513	173,067	0	168,181	750,761	151,185	0	599,575	750,760	1	10,382,302
27	410,110	173,541	0	168,264	751,915	151,185	0	600,730	751,915	0	10,382,302
28	409,857	173,067	0	168,118	751,042	151,185	0	599,856	751,041	1	10,382,303
29	409,259	173,067	0	167,864	750,190	151,185	0	599,004	750,189	1	10,382,304
30	410,822	173,067	0	168,678	752,567	151,185	0	601,382	752,567	0	10,382,304
31	410,472	173,541	0	168,553	752,566	151,185	0	601,380	752,565	1	10,382,305
32	411,491	173,067	0	169,021	753,579	151,185	0	602,394	753,579	0	10,382,305
33	409,620	173,067	0	168,031	750,718	151,185	0	599,533	750,718	0	10,382,305
34	409,089	173,067	0	167,875	750,031	151,185	0	598,846	750,031	0	10,382,305
35	410,634	173,541	0	168,641	752,816	151,185	0	601,631	752,816	0	10,382,305
36	410,748	173,067	0	168,534	752,349	151,185	0	601,164	752,349	0	10,382,305
37	409,285	173,067	0	168,000	750,352	151,185	0	599,166	750,351	1	10,382,306
38	411,726	173,067	0	168,718	753,511	151,185	0	602,324	753,509	2	10,382,308
39	410,298	173,541	0	168,631	752,470	151,185	0	601,285	752,470	0	10,382,308
40	410,970	173,067	0	168,601	752,638	151,185	0	601,452	752,637	1	10,382,309

Table 5.19 West Pit Filling Summary

Mine Year	Inflow Summary (m3)				Outflow Summary (m3)				Storage (m3)	
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflow	Evaporation	Dewatering to Central Pond	Discharge to Gold Brook	Total Outflow	Δ Storage	Cumulative Storage
1	479,216	42,598	0	521,814	84,567	436,384	0	520,951	863	863
2	479,495	128,031	0	607,526	84,617	522,575	0	607,192	334	1,197
3	477,478	214,166	0	691,644	84,261	607,376	0	691,637	7	1,204
4	478,901	299,130	0	778,031	84,512	693,014	0	777,526	505	1,709
5	479,499	384,562	0	864,061	84,617	779,426	0	864,043	18	1,727
6	479,142	469,995	0	949,137	84,555	864,185	0	948,740	397	2,124
7	481,100	557,066	0	1,038,166	84,900	953,076	0	1,037,976	190	2,314
8	477,180	641,093	0	1,118,273	84,208	1,034,000	0	1,118,208	65	2,379
9	477,047	701,714	0	1,178,761	84,185	1,095,000	0	1,179,185	-424	1,955
10	479,405	737,387	0	1,216,792	84,601	1,132,000	0	1,216,601	191	2,146
11	479,795	775,227	0	1,255,022	84,670	1,170,000	0	1,254,670	352	2,498
12	563,484	778,011	395,049	1,736,544	207,808	0	0	207,808	1,528,736	1,531,234
13	561,584	751,959	393,329	1,706,872	207,808	0	0	207,808	1,499,064	3,030,298
14	562,095	725,906	393,980	1,681,981	207,808	0	0	207,808	1,474,173	4,504,471
15	563,974	701,735	395,544	1,661,253	207,808	0	0	207,808	1,453,445	5,957,916
16	562,862	673,729	394,472	1,631,063	207,808	0	0	207,808	1,423,255	7,381,171
17	564,378	647,677	395,419	1,607,474	207,808	0	0	207,808	1,399,666	8,780,837
18	562,055	621,624	394,116	1,577,795	207,808	0	0	207,808	1,369,987	10,150,824
19	564,083	597,167	395,590	1,556,840	207,808	0	0	207,808	1,349,032	11,499,856
20	562,642	569,447	394,279	1,526,368	207,808	0	0	207,808	1,318,560	12,818,416
21	565,881	543,394	396,500	1,505,775	207,808	0	0	207,808	1,297,967	14,116,383
22	563,377	517,342	394,981	1,475,700	207,808	0	0	207,808	1,267,892	15,384,275
23	564,319	492,600	395,691	1,452,610	207,808	0	0	207,808	1,244,802	16,629,077
24	563,925	465,165	395,432	1,424,522	207,808	0	0	207,808	1,216,714	17,845,791
25	565,720	439,113	396,550	1,401,383	207,808	0	0	207,808	1,193,575	19,039,366
26	562,886	413,060	394,672	1,370,618	207,808	0	0	207,808	1,162,810	20,202,176
27	563,708	388,032	395,081	1,346,821	207,808	0	0	207,808	1,139,013	21,341,189
28	563,360	360,884	394,791	1,319,035	207,808	0	0	207,808	1,111,227	22,452,416
29	562,538	334,831	394,212	1,291,581	207,808	0	0	207,808	1,083,773	23,536,189
30	564,687	308,778	395,895	1,269,360	207,808	0	0	207,808	1,061,552	24,597,741
31	564,205	283,465	395,576	1,243,246	207,808	0	0	207,808	1,035,438	25,633,179
32	565,606	256,602	396,612	1,218,820	207,808	0	0	207,808	1,011,012	26,644,191
33	563,034	230,549	394,577	1,188,160	207,808	0	0	207,808	980,352	27,624,543
34	562,305	204,496	394,128	1,160,929	207,808	0	6,617	214,425	946,504	28,571,047
35	564,428	191,923	395,753	1,152,104	207,808	0	325,905	533,713	618,391	29,189,438
36	564,585	191,399	395,711	1,151,695	207,808	0	813,860	1,021,668	130,027	29,319,465
37	562,573	191,399	394,363	1,148,335	207,808	0	939,695	1,147,503	832	29,320,297
38	565,928	191,399	396,431	1,153,758	207,808	0	946,277	1,154,085	-327	29,319,970
39	563,966	191,923	395,561	1,151,450	207,808	0	943,791	1,151,599	-149	29,319,821
40	564,889	191,399	395,903	1,152,191	207,808	0	944,753	1,152,561	-370	29,319,451

Table 5.20 *Summary of Average Annual Flow Impacts*

Assessment Point	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
Lake Outlet	8,836,910	7,969,609	-9.8%	7,327,097	-17.1%	9,509,897	7.6%
GB-DS1	9,252,924	8,079,965	-12.7%	7,438,064	-19.6%	9,636,510	4.2%
GB-DS2	2,656,737	2,230,643	-16.0%	2,058,750	-22.5%	2,635,698	-0.8%
GB-DS3	5,352,150	4,294,381	-19.8%	4,035,623	-24.6%	5,253,203	-1.8%
GB-DS4	11,251,777	9,383,245	-16.6%	8,741,830	-22.3%	11,272,293	0.2%
GB-DS5	11,974,197	10,042,550	-16.1%	9,550,438	-20.2%	12,033,237	0.5%
GB-DS6	12,507,332	10,593,543	-15.3%	10,099,684	-19.2%	12,573,868	0.5%
GB-DS7	14,718,953	12,780,226	-13.2%	12,424,377	-15.6%	14,753,558	0.2%
WC-69-US	598,004	593,459	-0.8%	596,556	-0.2%	597,876	0.0%
WC-22-US	1,784,051	1,751,561	-1.8%	1,760,699	-1.3%	1,764,608	-1.1%
WC-22-DS1	1,896,287	1,800,148	-5.1%	1,809,538	-4.6%	1,813,563	-4.4%
WC-22-DS2	2,063,044	1,966,022	-4.7%	1,976,276	-4.2%	1,980,709	-4.0%
WC-50-DS	293,588	141,197	-51.9%	141,982	-51.6%	142,346	-51.5%
WC-14-US	664,609	653,854	-1.6%	659,955	-0.7%	662,762	-0.3%
WC-14-DS1	977,918	811,863	-17.0%	818,092	-16.3%	820,962	-16.0%
WC-14-DS2	1,143,321	817,538	-28.5%	819,413	-28.4%	900,985	-21.2%
WC-14-DS3	1,655,964	861,128	-48.0%	863,472	-47.9%	938,362	-43.3%
WC-14-DS4	1,760,463	949,630	-46.1%	952,471	-45.9%	1,029,998	-41.5%
WC-9-DS	567,162	280,003	-50.6%	317,815	-44.0%	344,327	-39.3%
WC-51-US	1,032,923	1,024,890	-0.8%	1,030,226	-0.3%	1,032,621	-0.1%
WC-20-DS1	1,315,973	1,233,104	-6.3%	1,239,498	-5.8%	1,242,660	-5.6%
WC-20-DS2	1,540,346	1,375,358	-10.7%	1,382,412	-10.3%	1,386,694	-10.0%
WC-20-DS3	258,787	184,126	-28.9%	185,046	-28.5%	185,777	-28.2%
WC-16-DS	132,825	21,991	-83.4%	12,295	-90.7%	66,756	-49.7%
WC-3-DS1	282,181	31,068	-89.0%	98,251	-65.2%	97,938	-65.3%
WC-3-DS2	406,209	120,099	-70.4%	200,571	-50.6%	208,594	-48.6%
WC-55-DS	89,710	73,727	-17.8%	74,437	-17.0%	77,124	-14.0%
WC-10-DS	68,829	27,881	-59.5%	25,707	-62.7%	28,502	-58.6%
WC-11-DS	593,749	500,687	-15.7%	490,323	-17.4%	484,784	-18.4%

Table 5.21 **Sensitivity Analysis – Comparison of Percent Change in Annual Flow Volumes for Average, 5th Percentile, 95th Percentile Flows**

Assessment Point	East EOM			West EOM			Closure		
	Avg	5th Percentile	95th Percentile	Avg	5th Percentile	95th Percentile	Avg	5th Percentile	95th Percentile
Lake Outlet	-9.8%	-6.2%	-10.6%	-17.1%	-14.6%	-18.3%	7.6%	10.8%	5.4%
GB-DS1	-12.6%	-9.2%	-13.3%	-19.6%	-17.3%	-20.7%	4.2%	7.2%	2.2%
GB-DS2	-16.0%	-12.9%	-16.5%	-22.5%	-20.5%	-23.4%	-0.8%	1.8%	-2.5%
GB-DS3	-19.7%	-16.8%	-20.2%	-24.6%	-22.6%	-25.5%	-1.8%	0.6%	-3.5%
GB-DS4	-16.6%	-13.5%	-17.1%	-22.3%	-20.3%	-23.2%	0.2%	2.7%	-1.6%
GB-DS5	-16.1%	-13.2%	-16.6%	-20.2%	-18.3%	-21.2%	0.5%	3.0%	-1.1%
GB-DS6	-15.3%	-12.4%	-15.6%	-19.2%	-17.3%	-20.1%	0.5%	2.9%	-1.0%
GB-DS7	-13.2%	-10.8%	-13.3%	-15.6%	-14.1%	-16.5%	0.2%	2.0%	-1.0%
WC-69-US	-0.7%	0.0%	0.0%	-0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
WC-22-US	-1.8%	-1.1%	-1.1%	-1.3%	-1.1%	-1.1%	-1.1%	-1.1%	-1.1%
WC-22-DS1	-5.0%	-4.3%	-4.4%	-4.6%	-4.4%	-4.4%	-4.3%	-4.4%	-4.4%
WC-22-DS2	-4.7%	-4.0%	-4.0%	-4.2%	-3.9%	-4.0%	-4.0%	-3.9%	-4.0%
WC-50-DS	-51.9%	-51.5%	-51.5%	-51.6%	-51.5%	-51.5%	-51.5%	-51.5%	-51.5%
WC-14-US	-1.6%	-0.9%	-0.9%	-0.7%	-0.5%	-0.5%	-0.3%	-0.3%	-0.3%
WC-14-DS1	-17.0%	-16.3%	-16.3%	-16.3%	-16.1%	-16.1%	-16.0%	-16.0%	-16.0%
WC-14-DS2	-28.5%	-27.9%	-28.0%	-28.4%	-28.1%	-28.2%	-21.2%	-21.2%	-21.2%
WC-14-DS3	-48.0%	-47.6%	-47.6%	-47.9%	-47.7%	-47.7%	-43.3%	-43.3%	-43.3%
WC-14-DS4	-46.1%	-45.6%	-45.6%	-45.9%	-45.7%	-45.7%	-41.5%	-41.5%	-41.5%
WC-9-DS	-50.6%	-50.2%	-50.3%	-44.0%	-43.8%	-43.8%	-39.3%	-39.3%	-39.3%
WC-51-US	-0.8%	0.0%	-0.1%	-0.3%	0.0%	-0.1%	-0.1%	0.0%	-0.1%
WC-20-DS1	-6.3%	-5.6%	-5.6%	-5.8%	-5.6%	-5.6%	-5.6%	-5.6%	-5.6%
WC-20-DS2	-10.7%	-10.1%	-10.0%	-10.2%	-10.1%	-10.1%	-10.0%	-10.0%	-10.0%
WC-20-DS3	-28.8%	-28.4%	-28.3%	-28.5%	-28.4%	-28.4%	-28.2%	-28.2%	-28.2%
WC-16-DS	-84.1%	-84.2%	-83.9%	-90.7%	-91.1%	-65.1%	-49.7%	-49.7%	-49.7%
WC-3-US	-89.0%	-89.0%	-88.8%	-65.2%	-65.1%	-50.5%	-65.3%	-65.3%	-65.3%
WC-3-DS	-70.4%	-70.2%	-70.2%	-50.6%	-50.5%	-16.8%	-48.6%	-48.6%	-48.6%
WC-55-DS	-17.8%	-17.2%	-17.2%	-17.0%	-16.8%	-62.6%	-14.0%	-14.0%	-14.0%
WC-10-DS	-59.4%	-61.0%	-56.0%	-62.7%	-62.6%	-17.2%	-58.6%	-58.6%	-58.6%
WC-11-DS	-15.7%	-14.9%	-15.2%	-17.4%	-17.3%	-16.3%	-18.4%	-18.4%	-18.4%

Table 5.22 *Climate Change Impact Analysis – Comparison of Percent Change in Average Annual Flow Volumes*

Assessment Point	East EOM		West EOM		Closure	
	Historical	Climate Change	Historical	Climate Change	Historical	Climate Change
Lake Outlet	-9.8%	-8.5%	-17.1%	-15.8%	7.6%	10.7%
GB-DS1	-12.6%	-11.4%	-19.6%	-18.3%	4.2%	7.1%
GB-DS2	-16.0%	-14.8%	-22.5%	-21.3%	-0.8%	2.1%
GB-DS3	-19.7%	-18.6%	-24.6%	-23.4%	-1.8%	1.0%
GB-DS4	-16.6%	-15.4%	-22.3%	-21.0%	0.2%	3.1%
GB-DS5	-16.1%	-14.8%	-20.2%	-18.9%	0.5%	3.4%
GB-DS6	-15.3%	-14.1%	-19.2%	-18.0%	0.5%	3.4%
GB-DS7	-13.2%	-11.9%	-15.6%	-14.2%	0.2%	3.2%
WC-69-US	-0.7%	0.7%	-0.2%	1.5%	0.0%	3.1%
WC-22-US	-1.8%	-0.3%	-1.3%	0.4%	-1.1%	2.0%
WC-22-DS1	-5.0%	-3.7%	-4.6%	-3.0%	-4.3%	-1.4%
WC-22-DS2	-4.7%	-3.3%	-4.2%	-2.6%	-4.0%	-1.0%
WC-50-DS	-51.9%	-51.2%	-51.6%	-50.8%	-51.5%	-50.0%
WC-14-US	-1.6%	-0.1%	-0.7%	1.0%	-0.3%	2.8%
WC-14-DS1	-17.0%	-15.7%	-16.3%	-14.9%	-16.0%	-13.4%
WC-14-DS2	-28.5%	-27.4%	-28.4%	-27.1%	-21.2%	-18.8%
WC-14-DS3	-48.0%	-47.2%	-47.9%	-47.0%	-43.3%	-41.6%
WC-14-DS4	-46.1%	-45.2%	-45.9%	-45.0%	-41.5%	-39.7%
WC-9-DS	-38.1%	-37.2%	-31.4%	-30.2%	-26.7%	-24.4%
WC-51-US	-0.8%	0.7%	-0.3%	1.4%	-0.1%	3.0%
WC-20-DS1	-6.3%	-4.9%	-5.8%	-4.2%	-5.6%	-2.7%
WC-20-DS2	-10.7%	-9.3%	-10.2%	-8.7%	-10.0%	-7.2%
WC-20-DS3	-28.8%	-27.8%	-28.5%	-27.3%	-28.2%	-26.0%
WC-16-DS	-84.1%	-83.9%	-90.7%	-90.6%	-49.7%	-48.2%
WC-3-US	-89.0%	-88.8%	-65.2%	-64.6%	-65.3%	-64.2%
WC-3-DS	-70.4%	-70.0%	-50.6%	-49.8%	-48.6%	-47.1%
WC-55-DS	-17.8%	-16.6%	-17.0%	-15.6%	-14.0%	-11.4%
WC-10-DS	-59.4%	-58.8%	-62.7%	-62.0%	-58.6%	-57.3%
WC-11-DS	-15.7%	-14.4%	-17.4%	-16.0%	-18.4%	-15.8%

Appendices

Appendix A

Site Water Balance

Table 1 *North Pond Water Balance for Year 1*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0
Oct	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0
Annual	0	0	0	0	0	0	0

Table 2 *North Pond Water Balance for Year 2*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0
Oct	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0
Annual	0	0	0	0	0	0	0

Table 3 *North Pond Water Balance for Year 3*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0
Oct	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0
Annual	0	0	0	0	0	0	0

Table 4 *North Pond Water Balance for Year 4*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	1,447	13,153	14,600	0	14,600	14,600	0
Feb	1,079	9,811	10,890	0	10,890	10,890	0
Mar	1,624	14,767	16,391	0	16,391	16,391	0
Apr	2,166	19,694	21,860	0	21,860	21,860	0
May	1,612	14,655	16,267	200	16,067	16,267	0
Jun	1,409	12,807	14,216	199	14,017	14,216	0
Jul	1,546	14,057	15,604	232	15,372	15,604	0
Aug	1,434	13,039	14,473	176	14,297	14,473	0
Sep	1,490	13,550	15,041	128	14,913	15,041	0
Oct	1,968	17,888	19,856	90	19,766	19,856	0
Nov	2,198	19,982	22,180	0	22,180	22,180	0
Dec	1,874	17,035	18,909	0	18,909	18,909	0
Annual	19,847	180,438	200,287	1,025	199,262	200,287	0

Table 5 *North Pond Water Balance for Year 5*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	1,448	13,164	14,612	0	14,612	14,612	0
Feb	1,061	9,649	10,710	0	10,710	10,710	0
Mar	1,619	14,721	16,341	0	16,341	16,341	0
Apr	2,166	19,694	21,860	0	21,860	21,860	0
May	1,567	14,247	15,815	199	15,616	15,815	0
Jun	1,416	12,876	14,293	200	14,093	14,293	0
Jul	1,560	14,181	15,741	236	15,506	15,742	-1
Aug	1,443	13,120	14,563	177	14,386	14,563	0
Sep	1,527	13,881	15,408	130	15,278	15,408	0
Oct	1,971	17,918	19,889	91	19,798	19,889	0
Nov	2,228	20,254	22,482	0	22,482	22,482	0
Dec	1,865	16,957	18,822	0	18,822	18,822	0
Annual	19,871	180,662	200,536	1,032	199,504	200,536	0

Table 6 *North Pond Water Balance for Year 6*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	1,486	13,508	14,994	0	14,994	14,994	0
Feb	1,068	9,706	10,773	0	10,773	10,773	0
Mar	1,592	14,477	16,069	0	16,069	16,069	0
Apr	2,185	19,863	22,048	0	22,048	22,048	0
May	1,589	14,442	16,031	199	15,832	16,031	0
Jun	1,404	12,763	14,167	198	13,969	14,167	0
Jul	1,537	13,972	15,509	236	15,273	15,509	0
Aug	1,476	13,415	14,890	178	14,712	14,890	0
Sep	1,527	13,880	15,406	129	15,277	15,406	0
Oct	1,923	17,483	19,406	90	19,316	19,406	0
Nov	2,230	20,269	22,499	0	22,499	22,499	0
Dec	1,843	16,751	18,594	0	18,594	18,594	0
Annual	19,860	180,529	200,386	1,030	199,356	200,386	0

Table 7 *North Pond Water Balance for Year 7*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	1,451	13,192	14,643	0	14,643	14,643	0
Feb	1,121	10,190	11,311	0	11,311	11,311	0
Mar	1,622	14,743	16,365	0	16,365	16,365	0
Apr	2,163	19,657	21,820	0	21,820	21,820	0
May	1,590	14,453	16,043	200	15,843	16,043	0
Jun	1,411	12,828	14,240	198	14,042	14,240	0
Jul	1,579	14,352	15,931	234	15,698	15,932	-1
Aug	1,477	13,422	14,898	179	14,719	14,898	0
Sep	1,483	13,482	14,965	129	14,836	14,965	0
Oct	1,982	18,014	19,996	91	19,905	19,996	0
Nov	2,168	19,705	21,873	0	21,873	21,873	0
Dec	1,884	17,127	19,011	0	19,011	19,011	0
Annual	19,931	181,165	201,096	1,031	200,066	201,097	-1

Table 8 *North Pond Water Balance for Year 8*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	1,425	12,958	14,383	0	14,383	14,383	0
Feb	1,089	9,903	10,992	0	10,992	10,992	0
Mar	1,624	14,761	16,385	0	16,385	16,385	0
Apr	2,145	19,498	21,643	0	21,643	21,643	0
May	1,574	14,308	15,882	200	15,682	15,882	0
Jun	1,423	12,934	14,357	199	14,158	14,357	0
Jul	1,549	14,084	15,633	232	15,401	15,633	0
Aug	1,465	13,316	14,781	177	14,604	14,781	0
Sep	1,477	13,424	14,900	129	14,772	14,901	-1
Oct	1,950	17,726	19,676	91	19,585	19,676	0
Nov	2,206	20,059	22,265	0	22,265	22,265	0
Dec	1,850	16,820	18,670	0	18,670	18,670	0
Annual	19,777	179,791	199,567	1,028	198,540	199,568	-1

Table 9 *North Pond Water Balance for Year 9*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,045	1,632	12,677	0	12,677	12,677	0
Feb	8,121	1,200	9,321	0	9,321	9,321	0
Mar	11,252	1,844	13,096	0	13,096	13,096	0
Apr	14,766	2,420	17,185	0	17,185	17,185	0
May	8,999	1,803	10,802	199	10,603	10,802	0
Jun	5,598	1,629	7,227	202	7,025	7,227	0
Jul	5,250	1,755	7,005	233	6,772	7,005	0
Aug	3,761	1,618	5,379	176	5,203	5,379	0
Sep	4,555	1,714	6,269	128	6,141	6,269	0
Oct	9,413	2,234	11,647	90	11,557	11,647	0
Nov	13,810	2,490	16,300	0	16,300	16,300	0
Dec	14,174	2,129	16,303	0	16,303	16,303	0
Annual	110,744	22,468	133,211	1,028	132,183	133,211	0

Table 10 *North Pond Water Balance for Year 10*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,130	1,644	12,774	0	12,774	12,774	0
Feb	8,007	1,183	9,190	0	9,190	9,190	0
Mar	11,132	1,824	12,956	0	12,956	12,956	0
Apr	15,095	2,474	17,569	0	17,569	17,569	0
May	9,353	1,874	11,227	200	11,027	11,227	0
Jun	5,498	1,600	7,098	198	6,900	7,098	0
Jul	5,190	1,735	6,925	235	6,691	6,926	-1
Aug	3,862	1,661	5,523	178	5,346	5,524	-1
Sep	4,592	1,728	6,320	129	6,191	6,320	0
Oct	9,389	2,228	11,617	91	11,527	11,618	-1
Nov	13,902	2,506	16,408	0	16,408	16,408	0
Dec	14,115	2,120	16,235	0	16,235	16,235	0
Annual	111,265	22,577	133,842	1,030	132,814	133,844	-2

Table 11 *North Pond Water Balance for Year 11*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,073	1,636	12,709	0	12,709	12,709	0
Feb	8,706	1,286	9,992	0	9,992	9,992	0
Mar	11,267	1,846	13,113	0	13,113	13,113	0
Apr	14,765	2,420	17,185	0	17,185	17,185	0
May	9,065	1,816	10,881	199	10,682	10,881	0
Jun	5,551	1,616	7,167	199	6,968	7,167	0
Jul	5,200	1,739	6,939	231	6,708	6,939	0
Aug	3,956	1,702	5,658	179	5,479	5,658	0
Sep	4,419	1,663	6,082	128	5,954	6,082	0
Oct	9,378	2,226	11,604	90	11,514	11,604	0
Nov	14,059	2,535	16,593	0	16,593	16,593	0
Dec	14,068	2,113	16,181	0	16,181	16,181	0
Annual	111,507	22,598	134,104	1,026	133,078	134,104	0

Table 12 *North Pond Water Balance for Year 12*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,137	1,645	12,782	0	12,782	12,782	0
Feb	8,283	1,224	9,506	0	9,506	9,506	0
Mar	11,254	1,844	13,099	0	13,099	13,099	0
Apr	14,970	2,453	17,423	0	17,423	17,423	0
May	8,923	1,788	10,711	198	10,513	10,711	0
Jun	5,545	1,614	7,159	198	6,961	7,159	0
Jul	5,261	1,759	7,020	232	6,788	7,020	0
Aug	3,806	1,638	5,444	178	5,266	5,444	0
Sep	4,514	1,699	6,213	128	6,085	6,213	0
Oct	9,342	2,217	11,560	90	11,470	11,560	0
Nov	14,203	2,561	16,763	0	16,763	16,763	0
Dec	14,089	2,116	16,205	0	16,205	16,205	0
Annual	111,327	22,558	133,885	1,023	132,861	133,884	1

Table 13 *North Pond Water Balance for Year 13*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	10,899	1,610	12,509	0	12,509	12,509	0
Feb	8,249	1,219	9,467	0	9,467	9,467	0
Mar	11,157	1,828	12,986	0	12,986	12,986	0
Apr	14,828	2,430	17,258	0	17,258	17,258	0
May	8,981	1,799	10,780	200	10,580	10,780	0
Jun	5,632	1,639	7,272	201	7,071	7,272	0
Jul	5,242	1,753	6,995	231	6,764	6,995	0
Aug	3,842	1,653	5,495	178	5,317	5,495	0
Sep	4,567	1,718	6,285	130	6,156	6,286	-1
Oct	9,358	2,221	11,579	90	11,490	11,580	-1
Nov	13,884	2,503	16,388	0	16,388	16,388	0
Dec	14,030	2,107	16,137	0	16,137	16,137	0
Annual	110,669	22,480	133,151	1,029	132,123	133,152	-1

Table 14 *North Pond Water Balance for Year 14*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,036	1,630	12,666	0	12,666	12,666	0
Feb	8,261	1,220	9,481	0	9,481	9,481	0
Mar	11,263	1,846	13,109	0	13,109	13,109	0
Apr	15,165	2,485	17,650	0	17,650	17,650	0
May	8,902	1,784	10,685	198	10,487	10,685	0
Jun	5,492	1,599	7,090	199	6,892	7,091	-1
Jul	5,232	1,749	6,982	233	6,748	6,981	1
Aug	3,847	1,655	5,502	176	5,325	5,501	1
Sep	4,553	1,713	6,266	129	6,138	6,267	-1
Oct	9,256	2,197	11,453	90	11,362	11,452	1
Nov	13,995	2,523	16,518	0	16,518	16,518	0
Dec	13,987	2,101	16,088	0	16,088	16,088	0
Annual	110,989	22,502	133,490	1,025	132,464	133,489	1

Table 15 *North Pond Water Balance for Year 15*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,132	1,645	12,777	0	12,777	12,777	0
Feb	8,736	1,291	10,027	0	10,027	10,027	0
Mar	11,276	1,848	13,124	0	13,124	13,124	0
Apr	14,760	2,419	17,179	0	17,179	17,179	0
May	9,186	1,840	11,027	202	10,825	11,027	1
Jun	5,522	1,607	7,129	197	6,932	7,129	0
Jul	5,166	1,727	6,893	231	6,662	6,893	0
Aug	3,811	1,639	5,450	177	5,273	5,450	0
Sep	4,468	1,681	6,149	129	6,021	6,150	-1
Oct	9,527	2,261	11,789	91	11,698	11,789	0
Nov	13,935	2,512	16,448	0	16,448	16,448	0
Dec	14,023	2,106	16,130	0	16,130	16,130	0
Annual	111,542	22,576	134,122	1,025	133,096	134,121	1

Table 16 *North Pond Water Balance for Year 16*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,036	1,630	12,667	0	12,667	12,667	0
Feb	8,411	1,243	9,653	0	9,653	9,653	0
Mar	11,432	1,873	13,305	0	13,305	13,305	0
Apr	14,814	2,428	17,242	0	17,242	17,242	0
May	8,995	1,802	10,797	201	10,595	10,796	1
Jun	5,577	1,623	7,200	198	7,002	7,200	0
Jul	5,374	1,797	7,171	235	6,936	7,171	0
Aug	3,817	1,642	5,459	178	5,281	5,459	0
Sep	4,463	1,679	6,142	129	6,013	6,142	1
Oct	9,353	2,220	11,572	90	11,482	11,572	0
Nov	13,757	2,480	16,238	0	16,238	16,238	0
Dec	14,083	2,115	16,198	0	16,198	16,198	0
Annual	111,112	22,532	133,644	1,031	132,612	133,643	1

Table 17 *North Pond Water Balance for Year 17*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,025	1,629	12,654	0	12,654	12,654	0
Feb	8,180	1,208	9,388	0	9,388	9,388	0
Mar	11,325	1,856	13,181	0	13,181	13,181	0
Apr	15,051	2,467	17,518	0	17,518	17,518	0
May	8,979	1,799	10,778	199	10,580	10,779	-1
Jun	5,607	1,632	7,239	201	7,037	7,238	1
Jul	5,303	1,773	7,075	233	6,842	7,075	0
Aug	3,816	1,642	5,458	177	5,282	5,459	-1
Sep	4,585	1,725	6,311	130	6,181	6,311	0
Oct	9,414	2,234	11,648	90	11,558	11,648	0
Nov	13,901	2,506	16,407	0	16,407	16,407	0
Dec	14,130	2,122	16,252	0	16,252	16,252	0
Annual	111,316	22,593	133,909	1,030	132,880	133,910	-1

Table 18 *North Pond Water Balance for Year 18*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,234	1,660	12,894	0	12,894	12,894	0
Feb	8,013	1,184	9,197	0	9,197	9,197	0
Mar	11,252	1,844	13,096	0	13,096	13,096	0
Apr	15,157	2,484	17,641	0	17,641	17,641	0
May	8,963	1,796	10,759	198	10,562	10,760	-1
Jun	5,501	1,601	7,103	197	6,906	7,103	0
Jul	5,232	1,749	6,981	232	6,749	6,981	0
Aug	3,743	1,610	5,353	175	5,179	5,354	-1
Sep	4,535	1,706	6,241	129	6,111	6,240	1
Oct	9,438	2,240	11,678	91	11,587	11,678	0
Nov	13,820	2,492	16,312	0	16,312	16,312	0
Dec	14,212	2,135	16,347	0	16,347	16,347	0
Annual	111,100	22,501	133,602	1,022	132,581	133,603	-1

Table 19 *North Pond Water Balance for Year 19*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,135	1,645	12,779	0	12,779	12,779	0
Feb	8,777	1,297	10,074	0	10,074	10,074	0
Mar	11,197	1,835	13,032	0	13,032	13,032	0
Apr	14,713	2,411	17,124	0	17,124	17,124	0
May	9,168	1,837	11,005	201	10,804	11,005	0
Jun	5,476	1,594	7,070	196	6,874	7,070	0
Jul	5,232	1,749	6,981	231	6,750	6,981	0
Aug	3,802	1,636	5,438	176	5,262	5,438	0
Sep	4,488	1,689	6,177	129	6,048	6,177	0
Oct	9,536	2,263	11,800	90	11,710	11,800	0
Nov	13,913	2,508	16,422	0	16,422	16,422	0
Dec	14,100	2,118	16,218	0	16,218	16,218	0
Annual	111,537	22,582	134,120	1,023	133,097	134,120	0

Table 20 *North Pond Water Balance for Year 20*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,061	1,634	12,695	0	12,695	12,695	0
Feb	8,320	1,229	9,549	0	9,549	9,549	0
Mar	11,360	1,862	13,222	0	13,222	13,222	0
Apr	14,809	2,427	17,235	0	17,235	17,235	0
May	8,944	1,792	10,737	200	10,537	10,737	0
Jun	5,620	1,636	7,256	199	7,056	7,255	1
Jul	5,272	1,763	7,034	233	6,801	7,034	0
Aug	3,767	1,621	5,388	176	5,212	5,388	0
Sep	4,582	1,724	6,306	129	6,177	6,306	0
Oct	9,384	2,227	11,612	91	11,521	11,612	0
Nov	13,856	2,498	16,354	0	16,354	16,354	0
Dec	14,060	2,112	16,172	0	16,172	16,172	0
Annual	111,035	22,525	133,560	1,029	132,531	133,560	0

Table 21 *North Pond Water Balance for Year 21*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,258	1,663	12,922	0	12,922	12,922	0
Feb	8,230	1,216	9,446	0	9,446	9,446	0
Mar	11,360	1,862	13,221	0	13,221	13,221	0
Apr	14,859	2,435	17,294	0	17,294	17,294	0
May	9,013	1,806	10,819	199	10,620	10,819	0
Jun	5,493	1,599	7,092	199	6,893	7,092	0
Jul	5,354	1,790	7,143	232	6,911	7,143	0
Aug	3,883	1,671	5,554	180	5,374	5,554	0
Sep	4,587	1,726	6,312	129	6,184	6,313	-1
Oct	9,442	2,241	11,683	91	11,593	11,684	-1
Nov	13,882	2,503	16,385	0	16,385	16,385	0
Dec	14,266	2,143	16,409	0	16,409	16,409	0
Annual	111,627	22,655	134,280	1,030	133,252	134,282	-2

Table 22 *North Pond Water Balance for Year 22*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,108	1,641	12,749	0	12,749	12,749	0
Feb	8,040	1,188	9,228	0	9,228	9,228	0
Mar	11,339	1,858	13,198	0	13,198	13,198	0
Apr	15,157	2,484	17,640	0	17,640	17,640	0
May	8,957	1,795	10,752	197	10,556	10,753	-1
Jun	5,472	1,593	7,064	199	6,865	7,064	0
Jul	5,312	1,776	7,088	235	6,853	7,088	0
Aug	3,756	1,616	5,372	177	5,194	5,371	1
Sep	4,562	1,717	6,279	129	6,150	6,279	0
Oct	9,367	2,223	11,590	91	11,499	11,590	0
Nov	13,974	2,519	16,494	0	16,494	16,494	0
Dec	14,276	2,144	16,420	0	16,420	16,420	0
Annual	111,320	22,554	133,874	1,028	132,846	133,874	0

Table 23 *North Pond Water Balance for Year 23*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	10,963	1,620	12,583	0	12,583	12,583	0
Feb	8,852	1,308	10,160	0	10,160	10,160	0
Mar	11,165	1,830	12,995	0	12,995	12,995	0
Apr	14,726	2,413	17,139	0	17,139	17,139	0
May	9,191	1,841	11,032	202	10,830	11,032	0
Jun	5,512	1,604	7,116	196	6,921	7,117	-1
Jul	5,247	1,754	7,002	231	6,771	7,002	0
Aug	3,819	1,643	5,462	176	5,286	5,462	0
Sep	4,498	1,692	6,190	130	6,060	6,190	0
Oct	9,485	2,251	11,737	91	11,646	11,737	0
Nov	13,845	2,496	16,341	0	16,341	16,341	0
Dec	14,234	2,138	16,372	0	16,372	16,372	0
Annual	111,537	22,590	134,129	1,025	133,104	134,129	0

Table 24 *North Pond Water Balance for Year 24*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,171	1,650	12,821	0	12,821	12,821	0
Feb	8,348	1,233	9,581	0	9,581	9,581	0
Mar	11,399	1,868	13,267	0	13,267	13,267	0
Apr	15,055	2,467	17,523	0	17,523	17,523	0
May	9,047	1,813	10,859	200	10,659	10,859	0
Jun	5,562	1,619	7,181	198	6,983	7,181	0
Jul	5,199	1,738	6,938	231	6,707	6,938	0
Aug	3,846	1,655	5,501	178	5,323	5,501	0
Sep	4,517	1,700	6,217	128	6,089	6,217	0
Oct	9,272	2,201	11,473	90	11,383	11,473	1
Nov	13,870	2,501	16,371	0	16,371	16,371	0
Dec	14,188	2,131	16,319	0	16,319	16,319	0
Annual	111,474	22,576	134,051	1,025	133,026	134,051	0

Table 25 *North Pond Water Balance for Year 25*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,183	1,652	12,835	0	12,835	12,835	0
Feb	8,198	1,211	9,409	0	9,409	9,409	0
Mar	11,505	1,885	13,391	0	13,391	13,391	0
Apr	14,997	2,458	17,454	0	17,454	17,454	0
May	9,120	1,827	10,947	201	10,746	10,947	0
Jun	5,533	1,611	7,144	199	6,944	7,143	1
Jul	5,330	1,782	7,112	235	6,877	7,112	0
Aug	3,819	1,643	5,462	178	5,284	5,462	0
Sep	4,547	1,711	6,259	129	6,129	6,258	1
Oct	9,346	2,218	11,564	90	11,474	11,564	0
Nov	13,999	2,524	16,523	0	16,523	16,523	0
Dec	14,150	2,125	16,275	0	16,275	16,275	0
Annual	111,727	22,647	134,375	1,032	133,341	134,373	2

Table 26 *North Pond Water Balance for Year 26*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,207	1,656	12,862	0	12,862	12,862	0
Feb	8,289	1,225	9,514	0	9,514	9,514	0
Mar	11,175	1,831	13,007	0	13,007	13,007	0
Apr	15,304	2,508	17,813	0	17,813	17,813	0
May	8,976	1,798	10,774	200	10,574	10,774	0
Jun	5,492	1,599	7,090	198	6,892	7,090	0
Jul	5,233	1,749	6,982	235	6,747	6,982	0
Aug	3,785	1,628	5,413	177	5,236	5,413	0
Sep	4,594	1,729	6,323	129	6,193	6,322	1
Oct	9,269	2,200	11,469	91	11,379	11,470	-1
Nov	13,816	2,491	16,307	0	16,307	16,307	0
Dec	14,114	2,120	16,234	0	16,234	16,234	0
Annual	111,254	22,534	133,788	1,030	132,758	133,788	0

Table 27 *North Pond Water Balance for Year 27*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,009	1,626	12,636	0	12,636	12,636	0
Feb	8,764	1,295	10,059	0	10,059	10,059	0
Mar	11,278	1,848	13,126	0	13,126	13,126	0
Apr	14,647	2,400	17,047	0	17,047	17,047	0
May	9,203	1,844	11,047	202	10,845	11,047	0
Jun	5,664	1,649	7,313	200	7,113	7,313	0
Jul	5,193	1,736	6,929	232	6,697	6,929	0
Aug	3,916	1,685	5,600	180	5,420	5,600	0
Sep	4,403	1,657	6,060	128	5,932	6,060	0
Oct	9,431	2,238	11,669	91	11,578	11,669	0
Nov	13,802	2,488	16,290	0	16,290	16,290	0
Dec	13,984	2,100	16,084	0	16,084	16,084	0
Annual	111,294	22,566	133,860	1,033	132,827	133,860	0

Table 28 *North Pond Water Balance for Year 28*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,123	1,643	12,766	0	12,766	12,766	0
Feb	8,365	1,236	9,600	0	9,600	9,600	0
Mar	11,322	1,855	13,177	0	13,177	13,177	0
Apr	15,010	2,460	17,470	0	17,470	17,470	0
May	8,997	1,803	10,800	200	10,600	10,800	0
Jun	5,564	1,619	7,183	201	6,982	7,183	0
Jul	5,245	1,754	6,999	236	6,763	6,999	0
Aug	3,892	1,674	5,566	179	5,387	5,566	0
Sep	4,513	1,698	6,211	129	6,083	6,212	-1
Oct	9,302	2,208	11,510	91	11,420	11,511	-1
Nov	13,890	2,504	16,394	0	16,394	16,394	0
Dec	13,970	2,098	16,068	0	16,068	16,068	0
Annual	111,193	22,552	133,744	1,035	132,710	133,745	-1

Table 29 *North Pond Water Balance for Year 29*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,144	1,646	12,791	0	12,791	12,791	0
Feb	8,131	1,201	9,333	0	9,333	9,333	0
Mar	11,240	1,842	13,081	0	13,081	13,081	0
Apr	15,056	2,467	17,523	0	17,523	17,523	0
May	8,916	1,786	10,703	199	10,504	10,703	0
Jun	5,572	1,622	7,194	200	6,994	7,194	0
Jul	5,175	1,730	6,904	232	6,673	6,905	-1
Aug	3,825	1,646	5,471	178	5,293	5,471	0
Sep	4,587	1,726	6,313	129	6,184	6,313	0
Oct	9,419	2,236	11,655	91	11,564	11,655	0
Nov	13,909	2,508	16,417	0	16,417	16,417	0
Dec	14,046	2,110	16,156	0	16,156	16,156	0
Annual	111,020	22,520	133,541	1,029	132,513	133,542	-1

Table 30 *North Pond Water Balance for Year 30*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,099	1,640	12,738	0	12,738	12,738	0
Feb	8,298	1,226	9,524	0	9,524	9,524	0
Mar	11,333	1,857	13,190	0	13,190	13,190	0
Apr	15,377	2,520	17,897	0	17,897	17,897	0
May	8,964	1,796	10,761	199	10,561	10,760	1
Jun	5,594	1,628	7,222	201	7,021	7,222	0
Jul	5,298	1,771	7,070	235	6,835	7,070	0
Aug	3,768	1,621	5,390	177	5,212	5,389	1
Sep	4,526	1,703	6,229	129	6,100	6,229	0
Oct	9,373	2,225	11,598	91	11,507	11,598	0
Nov	13,987	2,522	16,509	0	16,509	16,509	0
Dec	13,960	2,097	16,057	0	16,057	16,057	0
Annual	111,577	22,606	134,185	1,032	133,151	134,183	2

Table 31 *North Pond Water Balance for Year 31*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,104	1,640	12,745	0	12,745	12,745	0
Feb	8,798	1,300	10,098	0	10,098	10,098	0
Mar	11,408	1,869	13,277	0	13,277	13,277	0
Apr	14,761	2,419	17,180	0	17,180	17,180	0
May	9,166	1,836	11,002	202	10,801	11,003	-1
Jun	5,551	1,616	7,166	199	6,968	7,167	-1
Jul	5,180	1,732	6,912	231	6,682	6,913	-1
Aug	3,843	1,653	5,496	180	5,315	5,495	1
Sep	4,507	1,696	6,202	130	6,073	6,203	-1
Oct	9,450	2,243	11,693	90	11,603	11,693	0
Nov	13,855	2,498	16,353	0	16,353	16,353	0
Dec	13,874	2,084	15,958	0	15,958	15,958	0
Annual	111,497	22,586	134,082	1,031	133,053	134,084	-2

Table 32 *North Pond Water Balance for Year 32*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,075	1,636	12,711	0	12,711	12,711	0
Feb	8,486	1,254	9,740	0	9,740	9,740	0
Mar	11,219	1,838	13,057	0	13,057	13,057	0
Apr	15,006	2,459	17,465	0	17,465	17,465	0
May	9,225	1,848	11,073	202	10,871	11,073	1
Jun	5,546	1,614	7,161	199	6,962	7,161	0
Jul	5,189	1,735	6,923	233	6,690	6,923	0
Aug	3,853	1,658	5,511	177	5,334	5,511	0
Sep	4,473	1,683	6,156	129	6,027	6,156	0
Oct	9,556	2,268	11,824	91	11,733	11,824	0
Nov	13,819	2,491	16,311	0	16,311	16,311	0
Dec	14,364	2,158	16,522	0	16,522	16,522	0
Annual	111,811	22,642	134,454	1,031	133,423	134,454	0

Table 33 *North Pond Water Balance for Year 33*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,035	1,630	12,666	0	12,666	12,666	0
Feb	8,265	1,221	9,486	0	9,486	9,486	0
Mar	11,422	1,872	13,294	0	13,294	13,294	0
Apr	14,879	2,438	17,318	0	17,318	17,318	0
May	8,958	1,795	10,753	199	10,553	10,752	1
Jun	5,457	1,588	7,046	199	6,846	7,045	1
Jul	5,211	1,742	6,953	233	6,720	6,953	0
Aug	3,849	1,656	5,505	178	5,326	5,504	1
Sep	4,602	1,731	6,333	131	6,203	6,334	-1
Oct	9,405	2,232	11,637	92	11,546	11,638	-1
Nov	13,958	2,516	16,474	0	16,474	16,474	0
Dec	14,094	2,117	16,211	0	16,211	16,211	0
Annual	111,135	22,538	133,676	1,032	132,643	133,675	1

Table 34 *North Pond Water Balance for Year 34*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,160	1,649	12,808	0	12,808	12,808	0
Feb	8,146	1,203	9,349	0	9,349	9,349	0
Mar	11,324	1,856	13,180	0	13,180	13,180	0
Apr	15,109	2,476	17,585	0	17,585	17,585	0
May	8,906	1,784	10,691	198	10,492	10,690	1
Jun	5,520	1,607	7,127	200	6,926	7,126	1
Jul	5,253	1,756	7,010	235	6,774	7,009	1
Aug	3,772	1,623	5,395	178	5,217	5,395	0
Sep	4,565	1,718	6,283	128	6,155	6,283	0
Oct	9,443	2,241	11,685	91	11,594	11,685	0
Nov	13,812	2,490	16,302	0	16,302	16,302	0
Dec	14,027	2,107	16,134	0	16,134	16,134	0
Annual	111,037	22,510	133,549	1,031	132,516	133,547	2

Table 35 *North Pond Water Balance for Year 35*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,198	1,654	12,853	0	12,853	12,853	0
Feb	8,633	1,275	9,908	0	9,908	9,908	0
Mar	11,328	1,856	13,184	0	13,184	13,184	0
Apr	14,719	2,412	17,131	0	17,131	17,131	0
May	9,175	1,838	11,013	202	10,811	11,013	0
Jun	5,511	1,604	7,115	197	6,918	7,115	0
Jul	5,212	1,742	6,954	233	6,721	6,954	0
Aug	3,819	1,643	5,462	179	5,283	5,462	0
Sep	4,498	1,692	6,190	130	6,060	6,190	0
Oct	9,611	2,281	11,892	92	11,800	11,892	0
Nov	13,701	2,470	16,171	0	16,171	16,171	0
Dec	14,154	2,126	16,280	0	16,280	16,280	0
Annual	111,559	22,593	134,153	1,032	133,120	134,152	1

Table 36 *North Pond Water Balance for Year 36*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,057	1,634	12,690	0	12,690	12,690	0
Feb	8,305	1,227	9,532	0	9,532	9,532	0
Mar	11,546	1,892	13,438	0	13,438	13,438	0
Apr	14,802	2,426	17,227	0	17,227	17,227	0
May	9,224	1,848	11,072	202	10,870	11,072	1
Jun	5,560	1,618	7,178	199	6,979	7,178	0
Jul	5,211	1,742	6,953	232	6,721	6,953	0
Aug	3,913	1,683	5,596	178	5,418	5,596	0
Sep	4,485	1,688	6,173	129	6,044	6,173	1
Oct	9,312	2,210	11,522	91	11,432	11,523	-1
Nov	13,963	2,517	16,481	0	16,481	16,481	0
Dec	14,092	2,117	16,208	0	16,208	16,208	0
Annual	111,470	22,602	134,070	1,030	133,040	134,070	0

Table 37 *North Pond Water Balance for Year 37*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,240	1,661	12,900	0	12,900	12,900	0
Feb	8,253	1,219	9,472	0	9,472	9,472	0
Mar	11,226	1,840	13,065	0	13,065	13,065	0
Apr	14,824	2,429	17,253	0	17,253	17,253	0
May	9,054	1,814	10,868	199	10,669	10,868	0
Jun	5,574	1,622	7,196	200	6,996	7,196	0
Jul	5,265	1,760	7,025	234	6,791	7,025	0
Aug	3,806	1,637	5,443	177	5,266	5,443	0
Sep	4,512	1,698	6,209	129	6,080	6,209	0
Oct	9,307	2,209	11,516	91	11,425	11,516	0
Nov	13,848	2,497	16,345	0	16,345	16,345	0
Dec	14,219	2,136	16,354	0	16,354	16,354	0
Annual	111,128	22,522	133,646	1,030	132,616	133,646	0

Table 38 *North Pond Water Balance for Year 38*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,087	1,638	12,725	0	12,725	12,725	0
Feb	8,314	1,228	9,542	0	9,542	9,542	0
Mar	11,199	1,835	13,034	0	13,034	13,034	0
Apr	15,160	2,484	17,644	0	17,644	17,644	0
May	9,047	1,813	10,860	201	10,659	10,860	0
Jun	5,474	1,593	7,067	199	6,869	7,068	-1
Jul	5,321	1,779	7,100	236	6,863	7,099	1
Aug	3,771	1,622	5,393	178	5,215	5,393	0
Sep	4,836	1,820	6,656	130	6,526	6,656	0
Oct	9,365	2,223	11,587	91	11,496	11,587	0
Nov	13,820	2,492	16,311	0	16,311	16,311	0
Dec	14,172	2,129	16,301	0	16,301	16,301	0
Annual	111,566	22,656	134,220	1,034	133,185	134,219	1

Table 39 *North Pond Water Balance for Year 39*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,259	1,663	12,923	0	12,923	12,923	0
Feb	8,669	1,281	9,950	0	9,950	9,950	0
Mar	11,296	1,851	13,147	0	13,147	13,147	0
Apr	14,806	2,426	17,232	0	17,232	17,232	0
May	9,203	1,844	11,047	203	10,843	11,046	1
Jun	5,511	1,604	7,115	198	6,917	7,115	0
Jul	5,139	1,718	6,857	229	6,627	6,856	1
Aug	3,859	1,660	5,519	180	5,339	5,519	0
Sep	4,483	1,687	6,170	129	6,041	6,170	1
Oct	9,308	2,209	11,517	90	11,427	11,517	0
Nov	14,048	2,533	16,581	0	16,581	16,581	0
Dec	13,985	2,101	16,086	0	16,086	16,086	0
Annual	111,566	22,577	134,144	1,029	133,113	134,142	2

Table 40 *North Pond Water Balance for Year 40*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,142	1,646	12,788	0	12,788	12,788	0
Feb	8,516	1,258	9,774	0	9,774	9,774	0
Mar	11,301	1,852	13,153	0	13,153	13,153	0
Apr	14,882	2,439	17,321	0	17,321	17,321	0
May	9,193	1,842	11,035	201	10,834	11,035	0
Jun	5,516	1,605	7,121	198	6,923	7,121	0
Jul	5,345	1,787	7,133	233	6,900	7,133	0
Aug	3,844	1,654	5,498	177	5,321	5,498	0
Sep	4,523	1,702	6,225	129	6,096	6,225	0
Oct	9,395	2,230	11,625	91	11,534	11,625	0
Nov	13,818	2,491	16,310	0	16,310	16,310	0
Dec	14,033	2,108	16,140	0	16,140	16,140	0
Annual	111,508	22,614	134,123	1,028	133,094	134,122	1

Table 41 *North Pond Water Balance for Year 41*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,153	1,648	12,801	0	12,801	12,801	0
Feb	8,419	1,244	9,662	0	9,662	9,662	0
Mar	11,455	1,877	13,332	0	13,332	13,332	0
Apr	14,952	2,450	17,403	0	17,403	17,403	0
May	8,907	1,785	10,692	198	10,494	10,692	0
Jun	5,518	1,606	7,124	199	6,926	7,125	-1
Jul	5,319	1,778	7,098	234	6,864	7,098	0
Aug	3,828	1,647	5,475	178	5,297	5,475	0
Sep	4,488	1,689	6,177	129	6,048	6,177	1
Oct	9,418	2,235	11,653	91	11,562	11,653	0
Nov	13,826	2,493	16,319	0	16,319	16,319	0
Dec	14,106	2,119	16,225	0	16,225	16,225	0
Annual	111,389	22,571	133,961	1,028	132,933	133,961	0

Table 42 *North Pond Water Balance for Year 42*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,252	1,662	12,914	0	12,914	12,914	0
Feb	8,132	1,201	9,334	0	9,334	9,334	0
Mar	11,233	1,841	13,073	0	13,073	13,073	0
Apr	15,122	2,478	17,600	0	17,600	17,600	0
May	8,997	1,803	10,800	199	10,600	10,799	1
Jun	5,529	1,609	7,138	199	6,939	7,138	0
Jul	5,309	1,775	7,085	236	6,849	7,085	0
Aug	3,785	1,628	5,413	178	5,235	5,413	0
Sep	4,548	1,711	6,259	130	6,130	6,260	-1
Oct	9,604	2,279	11,883	91	11,792	11,883	0
Nov	13,958	2,517	16,475	0	16,475	16,475	0
Dec	14,128	2,122	16,250	0	16,250	16,250	0
Annual	111,597	22,626	134,224	1,032	133,191	134,223	1

Table 43 *North Pond Water Balance for Year 43*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,130	1,644	12,774	0	12,774	12,774	0
Feb	8,639	1,276	9,915	0	9,915	9,915	0
Mar	11,345	1,859	13,204	0	13,204	13,204	0
Apr	14,935	2,448	17,383	0	17,383	17,383	0
May	9,075	1,818	10,893	202	10,691	10,893	0
Jun	5,483	1,596	7,079	198	6,881	7,079	0
Jul	5,192	1,736	6,928	231	6,697	6,928	0
Aug	3,826	1,646	5,472	178	5,294	5,472	0
Sep	4,474	1,683	6,158	129	6,029	6,158	1
Oct	9,375	2,225	11,601	90	11,510	11,600	1
Nov	13,827	2,493	16,320	0	16,320	16,320	0
Dec	13,909	2,089	15,998	0	15,998	15,998	0
Annual	111,210	22,513	133,725	1,028	132,696	133,724	1

Table 44 *North Pond Water Balance for Year 44*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,075	1,636	12,711	0	12,711	12,711	0
Feb	8,524	1,259	9,783	0	9,783	9,783	0
Mar	11,541	1,891	13,432	0	13,432	13,432	0
Apr	15,012	2,460	17,472	0	17,472	17,472	0
May	9,050	1,813	10,863	200	10,664	10,864	-1
Jun	5,518	1,606	7,125	199	6,926	7,125	0
Jul	5,265	1,760	7,026	233	6,793	7,026	0
Aug	3,873	1,666	5,539	177	5,362	5,539	0
Sep	4,477	1,685	6,162	129	6,033	6,162	0
Oct	9,481	2,250	11,731	91	11,640	11,731	0
Nov	14,086	2,540	16,625	0	16,625	16,625	0
Dec	13,914	2,090	16,003	0	16,003	16,003	0
Annual	111,816	22,656	134,472	1,029	133,444	134,473	-1

Table 45 *North Pond Water Balance for Year 45*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,069	1,635	12,704	0	12,704	12,704	0
Feb	8,335	1,231	9,567	0	9,567	9,567	0
Mar	11,362	1,862	13,223	0	13,223	13,223	0
Apr	15,194	2,490	17,684	0	17,684	17,684	0
May	8,985	1,800	10,785	199	10,587	10,786	-1
Jun	5,538	1,612	7,150	199	6,951	7,150	0
Jul	5,185	1,733	6,918	232	6,687	6,919	-1
Aug	3,879	1,669	5,548	178	5,370	5,548	0
Sep	4,522	1,701	6,223	128	6,095	6,223	0
Oct	9,365	2,223	11,588	90	11,498	11,588	0
Nov	13,788	2,486	16,274	0	16,274	16,274	0
Dec	14,161	2,127	16,287	0	16,287	16,287	0
Annual	111,383	22,569	133,951	1,026	132,927	133,953	-2

Table 46 *North Pond Water Balance for Year 46*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	10,907	1,611	12,519	0	12,519	12,519	0
Feb	8,097	1,196	9,293	0	9,293	9,293	0
Mar	11,182	1,832	13,014	0	13,014	13,014	0
Apr	15,192	2,490	17,682	0	17,682	17,682	0
May	8,907	1,785	10,691	199	10,492	10,691	0
Jun	5,512	1,605	7,117	199	6,918	7,117	0
Jul	5,211	1,742	6,954	234	6,720	6,954	0
Aug	3,800	1,635	5,435	178	5,257	5,435	0
Sep	4,572	1,720	6,292	129	6,163	6,292	0
Oct	9,337	2,216	11,553	91	11,462	11,553	0
Nov	13,940	2,513	16,453	0	16,453	16,453	0
Dec	14,095	2,117	16,212	0	16,212	16,212	0
Annual	110,752	22,462	133,215	1,030	132,185	133,215	0

Table 47 *North Pond Water Balance for Year 47*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,125	1,644	12,769	0	12,769	12,769	0
Feb	8,631	1,275	9,906	0	9,906	9,906	0
Mar	11,368	1,863	13,231	0	13,231	13,231	0
Apr	14,621	2,396	17,017	0	17,017	17,017	0
May	9,235	1,850	11,086	203	10,883	11,086	0
Jun	5,490	1,598	7,088	197	6,891	7,088	0
Jul	5,164	1,726	6,890	231	6,659	6,890	0
Aug	3,847	1,655	5,502	178	5,324	5,502	0
Sep	4,505	1,695	6,200	129	6,071	6,200	0
Oct	9,617	2,282	11,899	90	11,809	11,899	0
Nov	13,840	2,495	16,336	0	16,336	16,336	0
Dec	14,047	2,110	16,157	0	16,157	16,157	0
Annual	111,490	22,589	134,081	1,029	133,053	134,082	-1

Table 48 *North Pond Water Balance for Year 48*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,044	1,632	12,676	0	12,676	12,676	0
Feb	8,560	1,265	9,825	0	9,825	9,825	0
Mar	11,281	1,849	13,130	0	13,130	13,130	0
Apr	14,714	2,411	17,125	0	17,125	17,125	0
May	9,032	1,810	10,841	202	10,640	10,842	-1
Jun	5,552	1,616	7,168	199	6,969	7,168	0
Jul	5,270	1,762	7,032	234	6,798	7,032	0
Aug	3,896	1,676	5,571	180	5,392	5,572	-1
Sep	4,424	1,664	6,088	128	5,961	6,089	-1
Oct	9,507	2,256	11,763	91	11,672	11,763	0
Nov	14,081	2,539	16,619	0	16,619	16,619	0
Dec	14,082	2,115	16,197	0	16,197	16,197	0
Annual	111,443	22,595	134,035	1,033	133,004	134,037	-2

Table 49 *North Pond Water Balance for Year 49*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,235	1,660	12,895	0	12,895	12,895	0
Feb	8,162	1,206	9,368	0	9,368	9,368	0
Mar	11,249	1,843	13,092	0	13,092	13,092	0
Apr	15,181	2,488	17,669	0	17,669	17,669	0
May	9,222	1,848	11,070	200	10,870	11,070	0
Jun	5,559	1,618	7,177	197	6,980	7,177	0
Jul	5,324	1,780	7,105	231	6,874	7,105	0
Aug	3,802	1,636	5,438	176	5,262	5,438	0
Sep	4,462	1,679	6,141	127	6,013	6,140	1
Oct	9,229	2,191	11,420	90	11,330	11,420	0
Nov	13,992	2,523	16,515	0	16,515	16,515	0
Dec	14,011	2,104	16,115	0	16,115	16,115	0
Annual	111,428	22,576	134,005	1,022	132,983	134,005	0

Table 50 *North Pond Water Balance for Year 50*

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,069	1,635	12,705	0	12,705	12,705	0
Feb	8,175	1,208	9,383	0	9,383	9,383	0
Mar	11,249	1,843	13,093	0	13,093	13,093	0
Apr	14,990	2,456	17,446	0	17,446	17,446	0
May	8,913	1,786	10,699	199	10,500	10,699	0
Jun	5,481	1,595	7,077	199	6,878	7,077	0
Jul	5,176	1,730	6,906	233	6,673	6,906	0
Aug	3,808	1,638	5,446	176	5,269	5,445	1
Sep	4,554	1,714	6,268	129	6,139	6,268	0
Oct	9,295	2,206	11,502	91	11,411	11,502	0
Nov	14,029	2,529	16,559	0	16,559	16,559	0
Dec	13,998	2,102	16,100	0	16,100	16,100	0
Annual	110,737	22,442	133,184	1,027	132,156	133,183	1

Table 51 *East Pond Water Balance for Year 1*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,688	0	20,656	32,345	0	32,345	32,345	0
Feb	8,610	0	16,323	24,933	0	24,933	24,933	0
Mar	11,637	0	24,326	35,963	0	35,963	35,963	0
Apr	15,429	0	33,791	49,220	0	49,220	49,220	0
May	9,271	0	26,119	35,391	421	34,969	35,390	1
Jun	5,619	0	23,176	28,796	463	28,333	28,796	1
Jul	5,290	0	25,823	31,113	552	30,561	31,113	0
Aug	3,956	0	25,331	29,287	450	28,837	29,287	0
Sep	4,758	0	26,995	31,753	313	31,440	31,753	0
Oct	9,678	0	33,494	43,173	189	42,984	43,173	0
Nov	14,359	0	37,378	51,737	0	51,737	51,737	0
Dec	14,580	0	34,165	48,744	0	48,744	48,744	0
Annual	114,875	0	327,577	442,455	2,387	440,066	442,453	2

Table 52 *East Pond Water Balance for Year 2*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,683	0	28,148	39,831	0	39,831	39,831	0
Feb	8,458	0	22,521	30,979	0	30,979	30,979	0
Mar	11,626	0	31,090	42,715	0	42,715	42,715	0
Apr	15,577	0	40,795	56,372	0	56,372	56,372	0
May	9,262	0	33,194	42,456	421	42,035	42,456	0
Jun	5,655	0	30,144	35,799	463	35,336	35,799	1
Jul	5,260	0	32,699	37,959	552	37,408	37,960	-1
Aug	3,978	0	32,407	36,384	450	35,934	36,384	0
Sep	4,711	0	33,424	38,136	313	37,823	38,136	0
Oct	9,721	0	40,811	50,532	189	50,343	50,532	0
Nov	14,384	0	43,740	58,124	0	58,124	58,124	0
Dec	14,641	0	41,673	56,313	0	56,313	56,313	0
Annual	114,956	0	410,646	525,600	2,387	523,213	525,600	0

Table 53 *East Pond Water Balance for Year 3*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	11,481	0	34,977	46,458	0	46,458	46,458	0
Feb	9,177	0	30,251	39,428	0	39,428	39,428	0
Mar	11,591	0	38,153	49,743	0	49,743	49,743	0
Apr	15,200	0	47,364	62,564	0	62,564	62,564	0
May	9,218	0	39,552	48,771	421	48,350	48,771	0
Jun	5,613	0	36,982	42,596	463	42,133	42,596	1
Jul	5,274	0	39,704	44,978	552	44,426	44,978	0
Aug	3,913	0	39,201	43,114	450	42,664	43,114	0
Sep	4,639	0	40,350	44,989	313	44,676	44,989	0
Oct	9,831	0	47,590	57,421	189	57,232	57,421	0
Nov	14,100	0	50,829	64,929	0	64,929	64,929	0
Dec	14,585	0	47,918	62,503	0	62,503	62,503	0
Annual	114,622	0	492,871	607,494	2,387	605,106	607,493	1

Table 54 *East Pond Water Balance for Year 4*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	472	0	41,962	42,434	0	42,434	42,434	0
Feb	352	0	35,297	35,649	0	35,649	35,649	0
Mar	530	0	45,287	45,816	0	45,816	45,816	0
Apr	707	0	54,248	54,954	0	54,954	54,954	0
May	526	0	47,318	47,844	421	47,423	47,844	0
Jun	459	0	43,491	43,950	463	43,488	43,951	-1
Jul	504	0	46,886	47,390	552	46,838	47,390	0
Aug	468	0	46,322	46,789	450	46,339	46,789	0
Sep	486	0	46,836	47,322	313	47,009	47,322	0
Oct	642	0	54,992	55,634	189	55,445	55,634	0
Nov	717	0	57,436	58,153	0	58,153	58,153	0
Dec	611	0	55,353	55,964	0	55,964	55,964	0
Annual	6,473	0	575,428	581,899	2,387	579,512	581,899	0

Table 55 *East Pond Water Balance for Year 5*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	4,519	16,926	49,186	70,631	0	70,631	70,631	0
Feb	3,313	12,407	41,478	57,197	0	57,197	57,197	0
Mar	4,707	18,929	52,161	75,797	0	75,797	75,797	0
Apr	6,239	25,323	60,906	92,467	0	92,467	92,467	0
May	4,009	18,319	53,778	76,107	421	75,686	76,107	0
Jun	2,940	16,556	50,297	69,794	463	69,331	69,794	1
Jul	3,029	18,234	54,191	75,455	552	74,903	75,455	0
Aug	2,532	16,869	53,209	72,610	450	72,160	72,610	0
Sep	2,842	17,848	54,273	74,963	313	74,650	74,963	0
Oct	4,620	23,039	62,014	89,673	189	89,484	89,673	0
Nov	6,058	26,042	64,547	96,647	0	96,647	96,647	0
Dec	5,771	21,803	62,616	90,190	0	90,190	90,190	0
Annual	50,579	232,295	658,656	941,531	2,387	939,143	941,530	1

Table 56 *East Pond Water Balance for Year 6*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	4,637	17,368	56,531	78,537	0	78,537	78,537	0
Feb	3,332	12,479	48,048	63,859	0	63,859	63,859	0
Mar	4,629	18,614	58,749	81,992	0	81,992	81,992	0
Apr	6,292	25,540	67,732	99,564	0	99,564	99,564	0
May	4,064	18,570	61,325	83,958	421	83,537	83,958	0
Jun	2,914	16,411	56,837	76,163	463	75,700	76,163	1
Jul	2,984	17,965	60,900	81,850	552	81,298	81,850	0
Aug	2,589	17,249	60,624	80,462	450	80,012	80,462	0
Sep	2,842	17,846	60,841	81,530	313	81,217	81,530	0
Oct	4,507	22,479	68,634	95,621	189	95,432	95,621	0
Nov	6,062	26,062	70,844	102,968	0	102,968	102,968	0
Dec	5,701	21,539	69,620	96,860	0	96,860	96,860	0
Annual	50,553	232,122	740,685	1,023,364	2,387	1,020,976	1,023,363	1

Table 57 *East Pond Water Balance for Year 7*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	4,531	16,972	63,304	84,807	0	84,807	84,807	0
Feb	3,500	13,110	56,140	72,750	0	72,750	72,750	0
Mar	4,716	18,967	66,443	90,126	0	90,126	90,126	0
Apr	6,230	25,289	74,623	106,142	0	106,142	106,142	0
May	4,069	18,594	67,752	90,416	421	89,995	90,416	0
Jun	2,931	16,504	63,985	83,419	463	82,957	83,420	-1
Jul	3,067	18,465	68,549	90,081	552	89,529	90,081	0
Aug	2,591	17,267	67,720	87,579	450	87,128	87,578	1
Sep	2,762	17,345	67,541	87,647	313	87,335	87,648	-1
Oct	4,647	23,176	75,801	103,624	189	103,435	103,624	0
Nov	5,897	25,351	77,853	109,101	0	109,101	109,101	0
Dec	5,832	22,034	76,398	104,264	0	104,264	104,264	0
Annual	50,773	233,074	826,109	1,109,956	2,387	1,107,569	1,109,956	0

Table 58 *East Pond Water Balance for Year 8*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	4,448	16,661	69,846	90,955	0	90,955	90,955	0
Feb	3,400	12,733	60,765	76,897	0	76,897	76,897	0
Mar	4,719	18,980	73,340	97,039	0	97,039	97,039	0
Apr	6,176	25,071	81,106	112,354	0	112,354	112,354	0
May	4,026	18,398	74,796	97,220	421	96,799	97,220	0
Jun	2,953	16,630	70,835	90,419	463	89,956	90,419	1
Jul	3,008	18,109	74,998	96,115	552	95,563	96,115	0
Aug	2,570	17,122	74,813	94,504	450	94,054	94,504	0
Sep	2,749	17,260	73,796	93,804	313	93,491	93,804	0
Oct	4,570	22,792	82,729	110,091	189	109,902	110,091	0
Nov	5,999	25,791	84,747	116,538	0	116,538	116,538	0
Dec	5,725	21,627	83,037	110,388	0	110,388	110,388	0
Annual	50,343	231,174	904,808	1,186,324	2,387	1,183,936	1,186,323	1

Table 59 *East Pond Water Balance for Year 9*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	13,990	2,098	0	16,088	0	16,088	16,088	0
Feb	10,286	1,543	0	11,829	0	11,829	11,829	0
Mar	14,228	2,371	0	16,598	0	16,598	16,598	0
Apr	18,671	3,111	0	21,782	0	21,782	21,782	0
May	11,336	2,318	0	13,655	176	13,478	13,654	1
Jun	6,986	2,095	0	9,081	179	8,902	9,081	0
Jul	6,522	2,257	0	8,778	206	8,572	8,778	0
Aug	4,625	2,080	0	6,705	155	6,550	6,705	0
Sep	5,634	2,204	0	7,838	113	7,725	7,838	0
Oct	11,812	2,873	0	14,685	80	14,605	14,685	0
Nov	17,433	3,201	0	20,634	0	20,634	20,634	0
Dec	17,948	2,737	0	20,685	0	20,685	20,685	0
Annual	139,471	28,888	0	168,358	909	167,448	168,357	1

Table 60 *East Pond Water Balance for Year 10*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,097	2,114	0	16,211	0	16,211	16,211	0
Feb	10,141	1,521	0	11,662	0	11,662	11,662	0
Mar	14,075	2,346	0	16,421	0	16,421	16,421	0
Apr	19,088	3,181	0	22,269	0	22,269	22,269	0
May	11,782	2,409	0	14,191	177	14,015	14,192	-1
Jun	6,861	2,058	0	8,919	175	8,744	8,919	0
Jul	6,448	2,231	0	8,679	208	8,471	8,679	0
Aug	4,749	2,136	0	6,885	157	6,728	6,885	0
Sep	5,679	2,222	0	7,901	114	7,787	7,901	0
Oct	11,782	2,865	0	14,648	80	14,567	14,647	1
Nov	17,548	3,223	0	20,771	0	20,771	20,771	0
Dec	17,873	2,726	0	20,599	0	20,599	20,599	0
Annual	140,123	29,032	0	169,156	911	168,245	169,156	0

Table 61 *East Pond Water Balance for Year 11*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,025	2,103	0	16,128	0	16,128	16,128	0
Feb	11,027	1,654	0	12,680	0	12,680	12,680	0
Mar	14,247	2,374	0	16,621	0	16,621	16,621	0
Apr	18,670	3,111	0	21,781	0	21,781	21,781	0
May	11,420	2,335	0	13,755	176	13,579	13,755	0
Jun	6,927	2,078	0	9,005	176	8,829	9,005	0
Jul	6,460	2,235	0	8,696	204	8,492	8,696	0
Aug	4,865	2,188	0	7,054	159	6,895	7,054	0
Sep	5,466	2,138	0	7,604	113	7,491	7,604	0
Oct	11,769	2,862	0	14,631	80	14,551	14,631	0
Nov	17,747	3,259	0	21,006	0	21,006	21,006	0
Dec	17,814	2,717	0	20,531	0	20,531	20,531	0
Annual	140,437	29,054	0	169,492	908	168,584	169,492	0

Table 62 *East Pond Water Balance for Year 12*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,106	2,116	0	16,221	0	16,221	16,221	0
Feb	10,491	1,573	0	12,064	0	12,064	12,064	0
Mar	14,231	2,371	0	16,602	0	16,602	16,602	0
Apr	18,929	3,154	0	22,084	0	22,084	22,084	0
May	11,241	2,299	0	13,540	175	13,365	13,540	0
Jun	6,920	2,075	0	8,995	175	8,820	8,995	0
Jul	6,536	2,262	0	8,797	205	8,592	8,797	0
Aug	4,681	2,106	0	6,787	157	6,629	6,786	1
Sep	5,584	2,184	0	7,768	113	7,655	7,768	0
Oct	11,724	2,851	0	14,575	80	14,495	14,575	0
Nov	17,929	3,292	0	21,221	0	21,221	21,221	0
Dec	17,840	2,721	0	20,561	0	20,561	20,561	0
Annual	140,212	29,004	0	169,215	905	168,309	169,214	1

Table 63 *East Pond Water Balance for Year 13*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	13,804	2,070	0	15,875	0	15,875	15,875	0
Feb	10,448	1,567	0	12,015	0	12,015	12,015	0
Mar	14,108	2,351	0	16,459	0	16,459	16,459	0
Apr	18,749	3,124	0	21,874	0	21,874	21,874	0
May	11,313	2,314	0	13,627	177	13,450	13,627	0
Jun	7,029	2,108	0	9,137	178	8,959	9,137	0
Jul	6,512	2,254	0	8,766	205	8,561	8,766	0
Aug	4,725	2,125	0	6,851	157	6,693	6,850	1
Sep	5,649	2,209	0	7,858	115	7,743	7,858	0
Oct	11,744	2,856	0	14,600	79	14,520	14,599	1
Nov	17,527	3,219	0	20,745	0	20,745	20,745	0
Dec	17,765	2,710	0	20,475	0	20,475	20,475	0
Annual	139,373	28,907	0	168,282	911	167,369	168,280	2

Table 64 *East Pond Water Balance for Year 14*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	13,977	2,096	0	16,074	0	16,074	16,074	0
Feb	10,463	1,569	0	12,032	0	12,032	12,032	0
Mar	14,242	2,373	0	16,615	0	16,615	16,615	0
Apr	19,175	3,195	0	22,371	0	22,371	22,371	0
May	11,214	2,293	0	13,507	176	13,331	13,507	1
Jun	6,853	2,055	0	8,909	176	8,733	8,909	0
Jul	6,500	2,249	0	8,749	207	8,543	8,750	-1
Aug	4,731	2,128	0	6,859	156	6,703	6,859	0
Sep	5,632	2,203	0	7,834	114	7,721	7,835	-1
Oct	11,615	2,825	0	14,440	80	14,360	14,440	0
Nov	17,667	3,244	0	20,911	0	20,911	20,911	0
Dec	17,711	2,701	0	20,413	0	20,413	20,413	0
Annual	139,780	28,931	0	168,714	907	167,807	168,714	0

Table 65 *East Pond Water Balance for Year 15*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,100	2,115	0	16,214	0	16,214	16,214	0
Feb	11,065	1,660	0	12,725	0	12,725	12,725	0
Mar	14,258	2,376	0	16,634	0	16,634	16,634	0
Apr	18,664	3,110	0	21,774	0	21,774	21,774	0
May	11,572	2,366	0	13,938	178	13,760	13,938	0
Jun	6,891	2,067	0	8,957	174	8,783	8,957	0
Jul	6,417	2,221	0	8,638	204	8,434	8,638	0
Aug	4,687	2,108	0	6,795	157	6,638	6,795	0
Sep	5,526	2,162	0	7,688	114	7,574	7,688	0
Oct	11,956	2,907	0	14,863	80	14,783	14,863	0
Nov	17,591	3,230	0	20,822	0	20,822	20,822	0
Dec	17,757	2,708	0	20,465	0	20,465	20,465	0
Annual	140,484	29,030	0	169,513	907	168,606	169,513	0

Table 66 *East Pond Water Balance for Year 16*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	13,978	2,096	0	16,075	0	16,075	16,075	0
Feb	10,653	1,598	0	12,251	0	12,251	12,251	0
Mar	14,455	2,409	0	16,864	0	16,864	16,864	0
Apr	18,732	3,122	0	21,854	0	21,854	21,854	0
May	11,331	2,317	0	13,648	178	13,470	13,648	0
Jun	6,959	2,087	0	9,046	175	8,871	9,046	0
Jul	6,676	2,310	0	8,986	208	8,779	8,987	-1
Aug	4,694	2,111	0	6,805	158	6,648	6,806	-1
Sep	5,519	2,159	0	7,678	114	7,565	7,679	-1
Oct	11,737	2,854	0	14,591	80	14,511	14,591	0
Nov	17,366	3,189	0	20,556	0	20,556	20,556	0
Dec	17,833	2,720	0	20,552	0	20,552	20,552	0
Annual	139,933	28,972	0	168,906	912	167,996	168,908	-2

Table 67 *East Pond Water Balance for Year 17*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	13,964	2,094	0	16,058	0	16,058	16,058	0
Feb	10,360	1,554	0	11,914	0	11,914	11,914	0
Mar	14,320	2,386	0	16,706	0	16,706	16,706	0
Apr	19,032	3,171	0	22,203	0	22,203	22,203	0
May	11,311	2,313	0	13,625	176	13,449	13,625	0
Jun	6,997	2,098	0	9,095	178	8,917	9,095	0
Jul	6,587	2,279	0	8,867	207	8,660	8,867	1
Aug	4,693	2,111	0	6,804	156	6,648	6,804	0
Sep	5,671	2,218	0	7,890	115	7,775	7,890	0
Oct	11,813	2,873	0	14,686	80	14,606	14,686	0
Nov	17,547	3,222	0	20,770	0	20,770	20,770	0
Dec	17,892	2,729	0	20,621	0	20,621	20,621	0
Annual	140,187	29,048	0	169,239	911	168,327	169,238	1

Table 68 *East Pond Water Balance for Year 18*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,229	2,134	0	16,363	0	16,363	16,363	0
Feb	10,149	1,522	0	11,672	0	11,672	11,672	0
Mar	14,228	2,371	0	16,598	0	16,598	16,598	0
Apr	19,165	3,194	0	22,359	0	22,359	22,359	0
May	11,291	2,309	0	13,601	175	13,426	13,601	0
Jun	6,865	2,059	0	8,924	174	8,750	8,924	0
Jul	6,499	2,249	0	8,748	205	8,543	8,748	0
Aug	4,603	2,071	0	6,674	155	6,519	6,674	1
Sep	5,608	2,194	0	7,802	114	7,688	7,802	0
Oct	11,843	2,880	0	14,724	80	14,643	14,723	1
Nov	17,446	3,204	0	20,650	0	20,650	20,650	0
Dec	17,996	2,745	0	20,741	0	20,741	20,741	0
Annual	139,922	28,932	0	168,856	904	167,952	168,856	0

Table 69 *East Pond Water Balance for Year 19*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,103	2,115	0	16,218	0	16,218	16,218	0
Feb	11,117	1,667	0	12,784	0	12,784	12,784	0
Mar	14,158	2,359	0	16,518	0	16,518	16,518	0
Apr	18,604	3,100	0	21,704	0	21,704	21,704	0
May	11,549	2,362	0	13,911	177	13,733	13,910	1
Jun	6,833	2,049	0	8,883	173	8,710	8,883	0
Jul	6,499	2,249	0	8,748	204	8,544	8,748	0
Aug	4,676	2,103	0	6,780	156	6,624	6,780	0
Sep	5,551	2,171	0	7,722	114	7,608	7,722	0
Oct	11,967	2,910	0	14,877	80	14,798	14,878	-1
Nov	17,563	3,225	0	20,788	0	20,788	20,788	0
Dec	17,854	2,723	0	20,577	0	20,577	20,577	0
Annual	140,474	29,033	0	169,510	905	168,606	169,511	-1

Table 70 *East Pond Water Balance for Year 20*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,009	2,101	0	16,111	0	16,111	16,111	0
Feb	10,537	1,580	0	12,118	0	12,118	12,118	0
Mar	14,365	2,394	0	16,758	0	16,758	16,758	0
Apr	18,725	3,120	0	21,845	0	21,845	21,845	0
May	11,267	2,304	0	13,572	177	13,395	13,572	0
Jun	7,013	2,103	0	9,117	176	8,940	9,116	1
Jul	6,549	2,266	0	8,815	207	8,609	8,816	-1
Aug	4,633	2,084	0	6,717	156	6,561	6,717	0
Sep	5,667	2,217	0	7,884	114	7,770	7,884	0
Oct	11,776	2,864	0	14,640	81	14,560	14,641	-1
Nov	17,490	3,212	0	20,702	0	20,702	20,702	0
Dec	17,804	2,715	0	20,519	0	20,519	20,519	0
Annual	139,835	28,960	0	168,798	910	167,888	168,798	0

Table 71 *East Pond Water Balance for Year 21*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,260	2,139	0	16,398	0	16,398	16,398	0
Feb	10,424	1,563	0	11,988	0	11,988	11,988	0
Mar	14,364	2,394	0	16,758	0	16,758	16,758	0
Apr	18,789	3,131	0	21,920	0	21,920	21,920	0
May	11,354	2,322	0	13,676	176	13,500	13,676	0
Jun	6,855	2,056	0	8,911	176	8,735	8,911	0
Jul	6,651	2,301	0	8,952	205	8,747	8,952	0
Aug	4,776	2,148	0	6,924	159	6,765	6,924	0
Sep	5,673	2,219	0	7,892	114	7,778	7,892	0
Oct	11,849	2,882	0	14,731	80	14,650	14,730	1
Nov	17,524	3,218	0	20,742	0	20,742	20,742	0
Dec	18,064	2,755	0	20,819	0	20,819	20,819	0
Annual	140,583	29,128	0	169,711	911	168,800	169,711	0

Table 72 *East Pond Water Balance for Year 22*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,069	2,110	0	16,179	0	16,179	16,179	0
Feb	10,184	1,527	0	11,711	0	11,711	11,711	0
Mar	14,338	2,389	0	16,727	0	16,727	16,727	0
Apr	19,165	3,194	0	22,359	0	22,359	22,359	0
May	11,284	2,308	0	13,591	174	13,418	13,592	-1
Jun	6,828	2,048	0	8,876	176	8,700	8,876	0
Jul	6,599	2,283	0	8,882	208	8,674	8,882	0
Aug	4,619	2,078	0	6,697	157	6,540	6,697	0
Sep	5,642	2,207	0	7,850	114	7,735	7,849	1
Oct	11,755	2,859	0	14,613	80	14,533	14,613	0
Nov	17,640	3,239	0	20,880	0	20,880	20,880	0
Dec	18,077	2,757	0	20,834	0	20,834	20,834	0
Annual	140,200	28,999	0	169,199	909	168,290	169,199	0

Table 73 **East Pond Water Balance for Year 23**

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	13,886	2,083	0	15,969	0	15,969	15,969	0
Feb	11,211	1,681	0	12,893	0	12,893	12,893	0
Mar	14,118	2,353	0	16,471	0	16,471	16,471	0
Apr	18,621	3,103	0	21,723	0	21,723	21,723	0
May	11,578	2,368	0	13,945	179	13,767	13,946	-1
Jun	6,879	2,063	0	8,941	173	8,769	8,942	-1
Jul	6,519	2,256	0	8,774	204	8,570	8,774	0
Aug	4,696	2,112	0	6,809	156	6,653	6,809	0
Sep	5,563	2,176	0	7,739	115	7,624	7,739	0
Oct	11,903	2,895	0	14,798	80	14,717	14,797	1
Nov	17,477	3,209	0	20,686	0	20,686	20,686	0
Dec	18,023	2,749	0	20,772	0	20,772	20,772	0
Annual	140,474	29,048	0	169,520	907	168,614	169,521	-1

Table 74 **East Pond Water Balance for Year 24**

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,148	2,122	0	16,270	0	16,270	16,270	0
Feb	10,573	1,586	0	12,159	0	12,159	12,159	0
Mar	14,414	2,402	0	16,816	0	16,816	16,816	0
Apr	19,037	3,172	0	22,209	0	22,209	22,209	0
May	11,396	2,331	0	13,727	177	13,549	13,726	1
Jun	6,941	2,082	0	9,023	175	8,847	9,022	1
Jul	6,459	2,235	0	8,694	204	8,490	8,694	0
Aug	4,730	2,128	0	6,858	158	6,700	6,858	0
Sep	5,587	2,185	0	7,772	113	7,659	7,772	0
Oct	11,636	2,830	0	14,465	79	14,386	14,465	0
Nov	17,509	3,215	0	20,724	0	20,724	20,724	0
Dec	17,965	2,740	0	20,705	0	20,705	20,705	0
Annual	140,395	29,028	0	169,422	907	168,514	169,421	1

Table 75 *East Pond Water Balance for Year 25*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,163	2,124	0	16,288	0	16,288	16,288	0
Feb	10,383	1,557	0	11,940	0	11,940	11,940	0
Mar	14,548	2,424	0	16,972	0	16,972	16,972	0
Apr	18,963	3,160	0	22,123	0	22,123	22,123	0
May	11,488	2,349	0	13,837	178	13,660	13,838	-1
Jun	6,905	2,071	0	8,976	176	8,799	8,975	1
Jul	6,621	2,291	0	8,912	208	8,705	8,913	-1
Aug	4,696	2,112	0	6,809	157	6,652	6,809	0
Sep	5,624	2,200	0	7,824	114	7,710	7,824	0
Oct	11,729	2,852	0	14,581	80	14,501	14,581	0
Nov	17,671	3,245	0	20,916	0	20,916	20,916	0
Dec	17,917	2,733	0	20,650	0	20,650	20,650	0
Annual	140,708	29,118	0	169,828	913	168,916	169,829	-1

Table 76 *East Pond Water Balance for Year 26*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,194	2,129	0	16,323	0	16,323	16,323	0
Feb	10,499	1,575	0	12,074	0	12,074	12,074	0
Mar	14,131	2,355	0	16,486	0	16,486	16,486	0
Apr	19,352	3,225	0	22,577	0	22,577	22,577	0
May	11,307	2,312	0	13,620	177	13,442	13,619	1
Jun	6,853	2,055	0	8,909	175	8,734	8,909	0
Jul	6,501	2,249	0	8,750	208	8,542	8,750	0
Aug	4,654	2,094	0	6,748	157	6,591	6,748	0
Sep	5,682	2,223	0	7,905	114	7,790	7,904	1
Oct	11,632	2,829	0	14,461	80	14,381	14,461	0
Nov	17,440	3,203	0	20,643	0	20,643	20,643	0
Dec	17,872	2,726	0	20,598	0	20,598	20,598	0
Annual	140,117	28,975	0	169,094	911	168,181	169,092	2

Table 77 *East Pond Water Balance for Year 27*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	13,944	2,091	0	16,035	0	16,035	16,035	0
Feb	11,100	1,665	0	12,765	0	12,765	12,765	0
Mar	14,260	2,376	0	16,637	0	16,637	16,637	0
Apr	18,520	3,086	0	21,606	0	21,606	21,606	0
May	11,593	2,371	0	13,964	179	13,785	13,964	1
Jun	7,068	2,120	0	9,188	177	9,012	9,189	-1
Jul	6,451	2,232	0	8,683	205	8,478	8,683	0
Aug	4,815	2,166	0	6,981	159	6,822	6,981	0
Sep	5,446	2,130	0	7,577	114	7,463	7,577	1
Oct	11,835	2,878	0	14,713	81	14,632	14,713	0
Nov	17,422	3,199	0	20,621	0	20,621	20,621	0
Dec	17,707	2,701	0	20,407	0	20,407	20,407	0
Annual	140,161	29,015	0	169,177	914	168,263	169,177	0

Table 78 *East Pond Water Balance for Year 28*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,087	2,113	0	16,200	0	16,200	16,200	0
Feb	10,594	1,589	0	12,183	0	12,183	12,183	0
Mar	14,316	2,386	0	16,702	0	16,702	16,702	0
Apr	18,979	3,163	0	22,142	0	22,142	22,142	0
May	11,334	2,318	0	13,652	177	13,475	13,652	0
Jun	6,943	2,082	0	9,025	178	8,848	9,026	-1
Jul	6,516	2,255	0	8,771	209	8,562	8,771	0
Aug	4,786	2,153	0	6,939	159	6,780	6,939	0
Sep	5,582	2,183	0	7,766	114	7,652	7,766	0
Oct	11,674	2,839	0	14,513	80	14,432	14,512	1
Nov	17,534	3,220	0	20,754	0	20,754	20,754	0
Dec	17,689	2,698	0	20,387	0	20,387	20,387	0
Annual	140,034	28,999	0	169,034	916	168,117	169,033	1

Table 79 *East Pond Water Balance for Year 29*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,115	2,117	0	16,232	0	16,232	16,232	0
Feb	10,299	1,545	0	11,843	0	11,843	11,843	0
Mar	14,212	2,368	0	16,580	0	16,580	16,580	0
Apr	19,037	3,172	0	22,210	0	22,210	22,210	0
May	11,232	2,297	0	13,529	176	13,353	13,529	0
Jun	6,954	2,085	0	9,039	177	8,862	9,039	0
Jul	6,428	2,224	0	8,653	205	8,448	8,653	0
Aug	4,704	2,116	0	6,820	158	6,663	6,821	-1
Sep	5,674	2,219	0	7,893	114	7,779	7,893	0
Oct	11,820	2,874	0	14,695	81	14,614	14,695	0
Nov	17,558	3,224	0	20,782	0	20,782	20,782	0
Dec	17,786	2,713	0	20,499	0	20,499	20,499	0
Annual	139,819	28,954	0	168,775	911	167,865	168,776	-1

Table 80 *East Pond Water Balance for Year 30*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,057	2,108	0	16,165	0	16,165	16,165	0
Feb	10,510	1,576	0	12,087	0	12,087	12,087	0
Mar	14,330	2,388	0	16,718	0	16,718	16,718	0
Apr	19,444	3,240	0	22,684	0	22,684	22,684	0
May	11,293	2,309	0	13,602	176	13,426	13,602	0
Jun	6,981	2,094	0	9,074	178	8,897	9,075	-1
Jul	6,582	2,278	0	8,860	208	8,652	8,860	0
Aug	4,634	2,085	0	6,719	157	6,562	6,719	0
Sep	5,598	2,190	0	7,787	114	7,674	7,788	-1
Oct	11,762	2,860	0	14,622	80	14,542	14,622	0
Nov	17,657	3,243	0	20,899	0	20,899	20,899	0
Dec	17,677	2,696	0	20,373	0	20,373	20,373	0
Annual	140,525	29,067	0	169,590	913	168,679	169,592	-2

Table 81 *East Pond Water Balance for Year 31*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,064	2,109	0	16,174	0	16,174	16,174	0
Feb	11,144	1,671	0	12,815	0	12,815	12,815	0
Mar	14,425	2,404	0	16,828	0	16,828	16,828	0
Apr	18,665	3,110	0	21,775	0	21,775	21,775	0
May	11,546	2,361	0	13,908	178	13,729	13,907	1
Jun	6,927	2,077	0	9,004	176	8,829	9,005	-1
Jul	6,435	2,227	0	8,662	204	8,458	8,662	0
Aug	4,726	2,126	0	6,851	160	6,692	6,852	-1
Sep	5,574	2,180	0	7,754	115	7,640	7,755	-1
Oct	11,859	2,884	0	14,743	80	14,664	14,744	-1
Nov	17,490	3,212	0	20,702	0	20,702	20,702	0
Dec	17,568	2,680	0	20,248	0	20,248	20,248	0
Annual	140,423	29,041	0	169,464	912	168,554	169,466	-2

Table 82 *East Pond Water Balance for Year 32*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,027	2,104	0	16,131	0	16,131	16,131	0
Feb	10,748	1,612	0	12,360	0	12,360	12,360	0
Mar	14,186	2,364	0	16,549	0	16,549	16,549	0
Apr	18,975	3,162	0	22,137	0	22,137	22,137	0
May	11,620	2,376	0	13,997	178	13,819	13,997	0
Jun	6,921	2,076	0	8,997	176	8,821	8,997	0
Jul	6,446	2,230	0	8,676	206	8,470	8,676	0
Aug	4,739	2,131	0	6,870	157	6,714	6,871	-1
Sep	5,532	2,164	0	7,696	114	7,582	7,696	0
Oct	11,992	2,916	0	14,909	81	14,828	14,909	0
Nov	17,444	3,203	0	20,648	0	20,648	20,648	0
Dec	18,189	2,774	0	20,963	0	20,963	20,963	0
Annual	140,819	29,112	0	169,933	912	169,022	169,934	-1

Table 83 *East Pond Water Balance for Year 33*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	13,977	2,096	0	16,073	0	16,073	16,073	0
Feb	10,468	1,570	0	12,038	0	12,038	12,038	0
Mar	14,443	2,407	0	16,849	0	16,849	16,849	0
Apr	18,814	3,135	0	21,950	0	21,950	21,950	0
May	11,284	2,308	0	13,592	176	13,416	13,592	0
Jun	6,810	2,042	0	8,853	176	8,676	8,852	1
Jul	6,473	2,240	0	8,713	206	8,507	8,713	0
Aug	4,733	2,129	0	6,862	158	6,705	6,863	-1
Sep	5,692	2,226	0	7,918	116	7,802	7,918	1
Oct	11,802	2,870	0	14,673	81	14,592	14,673	0
Nov	17,619	3,236	0	20,855	0	20,855	20,855	0
Dec	17,847	2,722	0	20,569	0	20,569	20,569	0
Annual	139,962	28,981	0	168,945	913	168,032	168,945	0

Table 84 *East Pond Water Balance for Year 34*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,134	2,120	0	16,254	0	16,254	16,254	0
Feb	10,317	1,547	0	11,864	0	11,864	11,864	0
Mar	14,319	2,386	0	16,705	0	16,705	16,705	0
Apr	19,105	3,184	0	22,289	0	22,289	22,289	0
May	11,219	2,294	0	13,514	176	13,338	13,514	1
Jun	6,888	2,066	0	8,954	177	8,777	8,954	0
Jul	6,526	2,258	0	8,785	208	8,576	8,784	1
Aug	4,639	2,087	0	6,726	157	6,569	6,726	0
Sep	5,647	2,209	0	7,855	113	7,742	7,855	0
Oct	11,851	2,882	0	14,732	81	14,652	14,733	-1
Nov	17,435	3,202	0	20,637	0	20,637	20,637	0
Dec	17,762	2,709	0	20,471	0	20,471	20,471	0
Annual	139,842	28,944	0	168,786	912	167,874	168,786	0

Table 85 *East Pond Water Balance for Year 35*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,184	2,127	0	16,311	0	16,311	16,311	0
Feb	10,934	1,640	0	12,574	0	12,574	12,574	0
Mar	14,323	2,387	0	16,710	0	16,710	16,710	0
Apr	18,612	3,101	0	21,713	0	21,713	21,713	0
May	11,558	2,364	0	13,922	179	13,743	13,922	0
Jun	6,877	2,063	0	8,940	174	8,766	8,940	0
Jul	6,474	2,240	0	8,714	206	8,509	8,715	-1
Aug	4,696	2,112	0	6,809	158	6,651	6,809	0
Sep	5,563	2,176	0	7,739	115	7,624	7,739	0
Oct	12,061	2,933	0	14,994	81	14,913	14,994	0
Nov	17,295	3,176	0	20,471	0	20,471	20,471	0
Dec	17,922	2,734	0	20,656	0	20,656	20,656	0
Annual	140,499	29,053	0	169,553	913	168,641	169,554	-1

Table 86 *East Pond Water Balance for Year 36*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,004	2,100	0	16,105	0	16,105	16,105	0
Feb	10,519	1,578	0	12,097	0	12,097	12,097	0
Mar	14,599	2,433	0	17,032	0	17,032	17,032	0
Apr	18,716	3,119	0	21,835	0	21,835	21,835	0
May	11,619	2,376	0	13,996	178	13,817	13,995	1
Jun	6,938	2,081	0	9,019	176	8,843	9,019	0
Jul	6,473	2,240	0	8,713	205	8,508	8,713	0
Aug	4,812	2,164	0	6,976	158	6,819	6,977	-1
Sep	5,548	2,170	0	7,717	114	7,604	7,718	-1
Oct	11,686	2,842	0	14,528	80	14,448	14,528	0
Nov	17,626	3,237	0	20,863	0	20,863	20,863	0
Dec	17,843	2,721	0	20,565	0	20,565	20,565	0
Annual	140,383	29,061	0	169,446	911	168,536	169,447	-1

Table 87 *East Pond Water Balance for Year 37*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,236	2,135	0	16,371	0	16,371	16,371	0
Feb	10,453	1,568	0	12,021	0	12,021	12,021	0
Mar	14,195	2,365	0	16,560	0	16,560	16,560	0
Apr	18,745	3,124	0	21,868	0	21,868	21,868	0
May	11,405	2,332	0	13,737	176	13,562	13,738	-1
Jun	6,955	2,086	0	9,042	177	8,865	9,042	0
Jul	6,540	2,263	0	8,803	207	8,596	8,803	0
Aug	4,680	2,105	0	6,786	157	6,629	6,786	0
Sep	5,580	2,183	0	7,763	115	7,648	7,763	1
Oct	11,679	2,840	0	14,519	80	14,439	14,519	0
Nov	17,481	3,210	0	20,691	0	20,691	20,691	0
Dec	18,004	2,746	0	20,750	0	20,750	20,750	0
Annual	139,953	28,957	0	168,911	911	168,000	168,911	0

Table 88 *East Pond Water Balance for Year 38*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,043	2,106	0	16,149	0	16,149	16,149	0
Feb	10,530	1,579	0	12,110	0	12,110	12,110	0
Mar	14,160	2,360	0	16,520	0	16,520	16,520	0
Apr	19,169	3,194	0	22,364	0	22,364	22,364	0
May	11,397	2,331	0	13,728	177	13,550	13,727	1
Jun	6,831	2,049	0	8,880	176	8,704	8,880	0
Jul	6,610	2,287	0	8,897	209	8,688	8,897	0
Aug	4,637	2,086	0	6,723	157	6,566	6,723	0
Sep	5,982	2,340	0	8,321	115	8,206	8,321	0
Oct	11,752	2,858	0	14,609	80	14,529	14,609	0
Nov	17,445	3,204	0	20,648	0	20,648	20,648	0
Dec	17,946	2,737	0	20,683	0	20,683	20,683	0
Annual	140,502	29,131	0	169,632	914	168,717	169,631	1

Table 89 *East Pond Water Balance for Year 39*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,261	2,139	0	16,399	0	16,399	16,399	0
Feb	10,980	1,647	0	12,627	0	12,627	12,627	0
Mar	14,284	2,380	0	16,664	0	16,664	16,664	0
Apr	18,721	3,120	0	21,841	0	21,841	21,841	0
May	11,593	2,371	0	13,964	180	13,784	13,964	0
Jun	6,877	2,063	0	8,940	175	8,765	8,940	0
Jul	6,384	2,209	0	8,593	203	8,390	8,593	0
Aug	4,745	2,134	0	6,880	159	6,721	6,880	0
Sep	5,545	2,169	0	7,714	114	7,600	7,714	0
Oct	11,680	2,841	0	14,521	80	14,441	14,521	0
Nov	17,734	3,257	0	20,990	0	20,990	20,990	0
Dec	17,709	2,701	0	20,410	0	20,410	20,410	0
Annual	140,513	29,031	0	169,543	911	168,632	169,543	0

Table 90 *East Pond Water Balance for Year 40*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,112	2,116	0	16,229	0	16,229	16,229	0
Feb	10,786	1,618	0	12,404	0	12,404	12,404	0
Mar	14,290	2,381	0	16,671	0	16,671	16,671	0
Apr	18,818	3,136	0	21,954	0	21,954	21,954	0
May	11,580	2,368	0	13,949	178	13,771	13,949	0
Jun	6,883	2,064	0	8,947	175	8,772	8,947	0
Jul	6,641	2,298	0	8,938	206	8,733	8,939	-1
Aug	4,728	2,127	0	6,854	157	6,697	6,854	0
Sep	5,594	2,188	0	7,782	114	7,668	7,782	0
Oct	11,790	2,867	0	14,657	80	14,576	14,656	1
Nov	17,443	3,203	0	20,647	0	20,647	20,647	0
Dec	17,769	2,710	0	20,479	0	20,479	20,479	0
Annual	140,434	29,076	0	169,511	909	168,601	169,510	1

Table 91 *East Pond Water Balance for Year 41*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,126	2,119	0	16,245	0	16,245	16,245	0
Feb	10,663	1,599	0	12,262	0	12,262	12,262	0
Mar	14,485	2,414	0	16,898	0	16,898	16,898	0
Apr	18,907	3,151	0	22,057	0	22,057	22,057	0
May	11,221	2,295	0	13,516	175	13,340	13,515	1
Jun	6,886	2,065	0	8,951	176	8,776	8,952	-1
Jul	6,608	2,287	0	8,895	207	8,688	8,895	0
Aug	4,708	2,118	0	6,826	158	6,668	6,826	0
Sep	5,551	2,171	0	7,722	114	7,608	7,722	0
Oct	11,818	2,874	0	14,692	80	14,612	14,692	0
Nov	17,453	3,205	0	20,659	0	20,659	20,659	0
Dec	17,861	2,724	0	20,586	0	20,586	20,586	0
Annual	140,287	29,022	0	169,309	910	168,399	169,309	0

Table 92 *East Pond Water Balance for Year 42*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,251	2,137	0	16,388	0	16,388	16,388	0
Feb	10,300	1,545	0	11,845	0	11,845	11,845	0
Mar	14,203	2,367	0	16,570	0	16,570	16,570	0
Apr	19,121	3,186	0	22,308	0	22,308	22,308	0
May	11,334	2,318	0	13,652	176	13,475	13,651	1
Jun	6,899	2,069	0	8,968	176	8,793	8,969	-1
Jul	6,596	2,282	0	8,878	209	8,670	8,879	-1
Aug	4,654	2,094	0	6,748	157	6,591	6,748	0
Sep	5,625	2,200	0	7,826	115	7,711	7,826	0
Oct	12,052	2,931	0	14,983	81	14,902	14,983	0
Nov	17,620	3,236	0	20,856	0	20,856	20,856	0
Dec	17,889	2,728	0	20,618	0	20,618	20,618	0
Annual	140,544	29,093	0	169,640	913	168,727	169,640	0

Table 93 *East Pond Water Balance for Year 43*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,097	2,114	0	16,211	0	16,211	16,211	0
Feb	10,942	1,641	0	12,583	0	12,583	12,583	0
Mar	14,345	2,391	0	16,736	0	16,736	16,736	0
Apr	18,885	3,147	0	22,032	0	22,032	22,032	0
May	11,431	2,338	0	13,769	179	13,590	13,769	0
Jun	6,842	2,052	0	8,894	175	8,719	8,894	0
Jul	6,450	2,232	0	8,681	204	8,477	8,681	0
Aug	4,706	2,117	0	6,822	157	6,665	6,822	0
Sep	5,534	2,165	0	7,698	114	7,585	7,699	-1
Oct	11,765	2,861	0	14,626	80	14,547	14,627	-1
Nov	17,455	3,205	0	20,660	0	20,660	20,660	0
Dec	17,612	2,686	0	20,298	0	20,298	20,298	0
Annual	140,064	28,949	0	169,010	909	168,103	169,012	-2

Table 94 *East Pond Water Balance for Year 44*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,027	2,104	0	16,131	0	16,131	16,131	0
Feb	10,796	1,619	0	12,416	0	12,416	12,416	0
Mar	14,593	2,432	0	17,024	0	17,024	17,024	0
Apr	18,982	3,163	0	22,145	0	22,145	22,145	0
May	11,401	2,331	0	13,732	177	13,555	13,732	0
Jun	6,886	2,065	0	8,952	176	8,776	8,952	0
Jul	6,541	2,263	0	8,804	206	8,598	8,804	0
Aug	4,763	2,142	0	6,905	157	6,748	6,905	0
Sep	5,537	2,166	0	7,703	114	7,589	7,703	0
Oct	11,897	2,893	0	14,791	81	14,710	14,791	0
Nov	17,781	3,265	0	21,046	0	21,046	21,046	0
Dec	17,618	2,687	0	20,305	0	20,305	20,305	0
Annual	140,822	29,130	0	169,954	910	169,043	169,953	1

Table 95 *East Pond Water Balance for Year 45*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,019	2,103	0	16,122	0	16,122	16,122	0
Feb	10,557	1,583	0	12,141	0	12,141	12,141	0
Mar	14,366	2,394	0	16,760	0	16,760	16,760	0
Apr	19,212	3,201	0	22,413	0	22,413	22,413	0
May	11,319	2,315	0	13,633	176	13,458	13,634	-1
Jun	6,911	2,073	0	8,984	176	8,808	8,984	0
Jul	6,441	2,229	0	8,670	205	8,465	8,670	0
Aug	4,771	2,146	0	6,916	157	6,759	6,916	0
Sep	5,593	2,188	0	7,781	113	7,667	7,780	1
Oct	11,753	2,858	0	14,611	80	14,531	14,611	0
Nov	17,405	3,196	0	20,601	0	20,601	20,601	0
Dec	17,931	2,735	0	20,665	0	20,665	20,665	0
Annual	140,278	29,021	0	169,297	908	168,390	169,298	-1

Table 96 *East Pond Water Balance for Year 46*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	13,815	2,072	0	15,887	0	15,887	15,887	0
Feb	10,255	1,538	0	11,793	0	11,793	11,793	0
Mar	14,139	2,356	0	16,495	0	16,495	16,495	0
Apr	19,210	3,201	0	22,411	0	22,411	22,411	0
May	11,220	2,295	0	13,515	176	13,338	13,514	1
Jun	6,879	2,063	0	8,942	176	8,766	8,942	0
Jul	6,474	2,240	0	8,714	207	8,507	8,714	0
Aug	4,673	2,102	0	6,775	157	6,618	6,775	0
Sep	5,655	2,212	0	7,867	115	7,752	7,867	1
Oct	11,717	2,849	0	14,566	80	14,486	14,566	0
Nov	17,596	3,231	0	20,828	0	20,828	20,828	0
Dec	17,848	2,722	0	20,570	0	20,570	20,570	0
Annual	139,481	28,881	0	168,363	911	167,451	168,362	1

Table 97 *East Pond Water Balance for Year 47*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,091	2,113	0	16,204	0	16,204	16,204	0
Feb	10,932	1,640	0	12,572	0	12,572	12,572	0
Mar	14,375	2,395	0	16,770	0	16,770	16,770	0
Apr	18,488	3,081	0	21,569	0	21,569	21,569	0
May	11,634	2,379	0	14,013	180	13,833	14,013	0
Jun	6,851	2,055	0	8,906	175	8,732	8,907	-1
Jul	6,415	2,220	0	8,635	204	8,431	8,635	0
Aug	4,731	2,128	0	6,860	158	6,702	6,860	0
Sep	5,572	2,180	0	7,752	114	7,637	7,751	1
Oct	12,068	2,935	0	15,003	80	14,923	15,003	0
Nov	17,471	3,208	0	20,679	0	20,679	20,679	0
Dec	17,787	2,713	0	20,500	0	20,500	20,500	0
Annual	140,415	29,047	0	169,463	911	168,552	169,463	0

Table 98 *East Pond Water Balance for Year 48*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	13,988	2,098	0	16,086	0	16,086	16,086	0
Feb	10,842	1,626	0	12,468	0	12,468	12,468	0
Mar	14,265	2,377	0	16,642	0	16,642	16,642	0
Apr	18,605	3,100	0	21,705	0	21,705	21,705	0
May	11,378	2,327	0	13,704	179	13,526	13,705	-1
Jun	6,929	2,078	0	9,007	176	8,831	9,007	0
Jul	6,546	2,265	0	8,812	207	8,605	8,812	0
Aug	4,791	2,155	0	6,946	159	6,786	6,945	1
Sep	5,471	2,140	0	7,612	113	7,499	7,612	0
Oct	11,930	2,901	0	14,832	81	14,751	14,832	0
Nov	17,774	3,264	0	21,039	0	21,039	21,039	0
Dec	17,831	2,720	0	20,550	0	20,550	20,550	0
Annual	140,350	29,051	0	169,403	914	168,488	169,402	1

Table 99 *East Pond Water Balance for Year 49*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,230	2,134	0	16,365	0	16,365	16,365	0
Feb	10,337	1,550	0	11,888	0	11,888	11,888	0
Mar	14,224	2,370	0	16,594	0	16,594	16,594	0
Apr	19,196	3,199	0	22,395	0	22,395	22,395	0
May	11,617	2,376	0	13,993	177	13,816	13,993	0
Jun	6,937	2,081	0	9,018	175	8,844	9,019	-1
Jul	6,615	2,289	0	8,903	204	8,699	8,903	0
Aug	4,676	2,103	0	6,779	156	6,623	6,779	0
Sep	5,519	2,159	0	7,677	113	7,565	7,678	-1
Oct	11,582	2,817	0	14,399	80	14,319	14,399	0
Nov	17,663	3,244	0	20,907	0	20,907	20,907	0
Dec	17,741	2,706	0	20,447	0	20,447	20,447	0
Annual	140,337	29,028	0	169,365	904	168,462	169,366	-1

Table 100 *East Pond Water Balance for Year 50*

Month	Inflow Summary (m3)				Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	14,020	2,103	0	16,123	0	16,123	16,123	0
Feb	10,354	1,553	0	11,907	0	11,907	11,907	0
Mar	14,224	2,370	0	16,595	0	16,595	16,595	0
Apr	18,954	3,158	0	22,112	0	22,112	22,112	0
May	11,228	2,296	0	13,524	176	13,348	13,524	0
Jun	6,840	2,051	0	8,891	176	8,715	8,891	0
Jul	6,430	2,225	0	8,655	207	8,448	8,655	1
Aug	4,683	2,106	0	6,789	156	6,633	6,789	0
Sep	5,633	2,203	0	7,836	114	7,722	7,836	0
Oct	11,665	2,837	0	14,502	80	14,421	14,501	1
Nov	17,710	3,252	0	20,962	0	20,962	20,962	0
Dec	17,724	2,703	0	20,428	0	20,428	20,428	0
Annual	139,465	28,857	0	168,324	909	167,414	168,323	1

Table 101 Central Pond Water Balance for Year 1

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	17,107	0	32,345	28,301	77,753	0	77,753	77,753	0
Feb	12,601	0	24,933	22,181	59,715	0	59,715	59,715	0
Mar	19,003	0	35,963	32,962	87,928	0	87,928	87,928	0
Apr	25,564	0	49,220	45,794	120,578	0	120,578	120,578	0
May	18,645	0	34,969	35,029	88,643	1,007	87,636	88,643	0
Jun	16,634	0	28,333	30,819	75,787	1,106	74,681	75,787	0
Jul	18,021	0	30,561	34,225	82,806	1,320	81,486	82,806	0
Aug	17,087	0	28,837	33,346	79,269	1,077	78,192	79,269	0
Sep	17,824	0	31,440	35,488	84,753	748	84,005	84,753	0
Oct	22,698	0	42,984	44,170	109,852	452	109,400	109,852	1
Nov	26,088	0	51,737	49,376	127,202	0	127,202	127,202	0
Dec	21,619	0	48,744	44,694	115,057	0	115,057	115,057	0
Annual	232,891	0	440,066	436,385	1,109,343	5,710	1,103,633	1,109,343	0

Table 102 Central Pond Water Balance for Year 2

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	17,099	0	39,831	36,222	93,152	0	93,152	93,152	0
Feb	12,379	0	30,979	28,553	71,911	0	71,911	71,911	0
Mar	18,984	0	42,715	39,881	101,581	0	101,581	101,581	0
Apr	25,809	0	56,372	53,121	135,302	0	135,302	135,302	0
May	18,627	0	42,035	42,376	103,039	1,007	102,031	103,038	1
Jun	16,740	0	35,336	38,096	90,173	1,106	89,067	90,173	0
Jul	17,920	0	37,408	41,299	96,627	1,320	95,307	96,627	0
Aug	17,180	0	35,934	40,695	93,809	1,077	92,733	93,810	-1
Sep	17,648	0	37,823	42,025	97,496	748	96,748	97,496	0
Oct	22,798	0	50,343	51,850	124,990	452	124,539	124,991	-1
Nov	26,134	0	58,124	55,820	140,078	0	140,078	140,078	0
Dec	21,709	0	56,313	52,636	130,659	0	130,659	130,659	0
Annual	233,027	0	523,213	522,574	1,278,817	5,710	1,273,108	1,278,818	-1

Table 103 Central Pond Water Balance for Year 3

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	16,803	0	46,458	43,232	106,493	0	106,493	106,493	0
Feb	13,432	0	39,428	36,865	89,725	0	89,725	89,725	0
Mar	18,927	0	49,743	47,205	115,875	0	115,875	115,875	0
Apr	25,185	0	62,564	59,843	147,591	0	147,591	147,591	0
May	18,539	0	48,350	48,732	115,621	1,007	114,613	115,620	1
Jun	16,616	0	42,133	45,189	103,938	1,106	102,832	103,938	0
Jul	17,968	0	44,426	48,543	110,937	1,320	109,618	110,938	-1
Aug	16,900	0	42,664	47,651	107,215	1,077	106,138	107,215	0
Sep	17,376	0	44,676	49,239	111,290	748	110,542	111,290	0
Oct	23,057	0	57,232	58,783	139,073	452	138,622	139,074	-1
Nov	25,618	0	64,929	63,257	153,805	0	153,805	153,805	0
Dec	21,627	0	62,503	58,837	142,967	0	142,967	142,967	0
Annual	232,048	0	605,106	607,376	1,444,530	5,710	1,438,821	1,444,531	-1

Table 104 Central Pond Water Balance for Year 4

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	24,877	17,089	42,434	50,449	134,849	0	134,849	134,849	0
Feb	18,556	12,747	35,649	41,814	108,766	0	108,766	108,766	0
Mar	27,113	19,186	45,816	54,634	146,749	0	146,749	146,749	0
Apr	36,023	25,587	54,954	67,005	183,569	0	183,569	183,569	0
May	25,592	19,041	47,423	57,029	149,086	1,007	148,079	149,086	0
Jun	20,772	16,640	43,488	51,835	132,735	1,106	131,629	132,735	0
Jul	22,314	18,264	46,838	56,037	143,454	1,320	142,134	143,454	0
Aug	20,067	16,941	46,339	55,060	138,407	1,077	137,330	138,407	0
Sep	21,228	17,605	47,009	55,853	141,696	748	140,948	141,696	0
Oct	30,249	23,242	55,445	66,581	175,517	452	175,065	175,517	1
Nov	35,723	25,962	58,153	70,038	189,876	0	189,876	189,876	0
Dec	32,102	22,133	55,964	66,680	176,879	0	176,879	176,879	0
Annual	314,616	234,437	579,512	693,015	1,821,583	5,710	1,815,873	1,821,583	0

Table 105 Central Pond Water Balance for Year 5

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	24,898	17,103	70,631	58,001	170,634	0	170,634	170,634	0
Feb	18,250	12,537	57,197	48,162	136,147	0	136,147	136,147	0
Mar	27,030	19,127	75,797	61,706	183,659	0	183,659	183,659	0
Apr	36,024	25,588	92,467	73,856	227,936	0	227,936	227,936	0
May	24,880	18,511	75,686	63,532	182,609	1,007	181,601	182,608	1
Jun	20,884	16,730	69,331	58,890	165,835	1,106	164,729	165,835	0
Jul	22,511	18,426	74,903	63,702	179,542	1,320	178,222	179,542	0
Aug	20,191	17,046	72,160	62,150	171,547	1,077	170,470	171,547	0
Sep	21,746	18,035	74,650	63,774	178,206	748	177,458	178,206	0
Oct	30,300	23,281	89,484	73,855	216,920	452	216,468	216,920	1
Nov	36,208	26,315	96,647	77,512	236,684	0	236,684	236,684	0
Dec	31,955	22,032	90,190	74,285	218,462	0	218,462	218,462	0
Annual	314,877	234,731	939,143	779,425	2,268,181	5,710	2,262,470	2,268,180	1

Table 106 Central Pond Water Balance for Year 6

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	25,549	17,550	78,537	65,720	187,355	0	187,355	187,355	0
Feb	18,357	12,610	63,859	55,046	149,872	0	149,872	149,872	0
Mar	26,581	18,810	81,992	68,384	195,766	0	195,766	195,766	0
Apr	36,334	25,808	99,564	80,937	242,642	0	242,642	242,642	0
May	25,220	18,764	83,537	71,527	199,048	1,007	198,041	199,048	0
Jun	20,701	16,583	75,700	65,579	178,563	1,106	177,457	178,563	0
Jul	22,179	18,154	81,298	70,546	192,177	1,320	190,857	192,177	0
Aug	20,645	17,430	80,012	69,965	188,052	1,077	186,975	188,052	0
Sep	21,744	18,033	81,217	70,502	191,497	748	190,749	191,497	0
Oct	29,564	22,715	95,432	80,577	228,288	452	227,836	228,288	1
Nov	36,236	26,335	102,968	83,867	249,406	0	249,406	249,406	0
Dec	31,567	21,765	96,860	81,535	231,728	0	231,728	231,728	0
Annual	314,677	234,557	1,020,976	864,185	2,434,394	5,710	2,428,684	2,434,394	0

Table 107 Central Pond Water Balance for Year 7

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	24,965	17,149	84,807	72,653	199,574	0	199,574	199,574	0
Feb	19,284	13,247	72,750	63,549	168,831	0	168,831	168,831	0
Mar	27,084	19,166	90,126	76,576	212,953	0	212,953	212,953	0
Apr	35,976	25,554	106,142	88,103	255,775	0	255,775	255,775	0
May	25,254	18,789	89,995	77,978	212,015	1,007	211,008	212,015	0
Jun	20,818	16,677	82,957	73,096	193,547	1,106	192,441	193,547	0
Jul	22,795	18,658	89,529	78,676	209,658	1,320	208,339	209,659	-1
Aug	20,668	17,448	87,128	77,335	202,579	1,077	201,502	202,579	0
Sep	21,133	17,527	87,335	77,404	203,398	748	202,650	203,398	0
Oct	30,479	23,418	103,435	88,045	245,378	452	244,926	245,378	1
Nov	35,247	25,617	109,101	91,195	261,159	0	261,159	261,159	0
Dec	32,292	22,265	104,264	88,468	247,288	0	247,288	247,288	0
Annual	315,995	235,515	1,107,569	953,078	2,612,155	5,710	2,606,446	2,612,156	-1

Table 108 Central Pond Water Balance for Year 8

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	24,508	16,836	90,955	79,260	211,560	0	211,560	211,560	0
Feb	18,730	12,866	76,897	68,225	176,718	0	176,718	176,718	0
Mar	27,103	19,178	97,039	83,679	227,000	0	227,000	227,000	0
Apr	35,666	25,334	112,354	94,714	268,067	0	268,067	268,067	0
May	24,986	18,590	96,799	85,283	225,659	1,007	224,651	225,658	1
Jun	20,977	16,805	89,956	80,212	207,950	1,106	206,844	207,950	0
Jul	22,356	18,299	95,563	85,163	221,380	1,320	220,060	221,380	0
Aug	20,493	17,301	94,054	84,707	216,555	1,077	215,479	216,556	-1
Sep	21,030	17,441	93,491	83,701	215,663	748	214,915	215,663	0
Oct	29,974	23,031	109,902	95,191	258,098	452	257,646	258,098	1
Nov	35,860	26,062	116,538	98,370	276,829	0	276,829	276,829	0
Dec	31,696	21,854	110,388	95,216	259,154	0	259,154	259,154	0
Annual	313,379	233,597	1,183,936	1,033,721	2,764,633	5,710	2,758,923	2,764,633	0

Table 109 Central Pond Water Balance for Year 9

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,501	2,120	0	86,634	119,255	0	119,255	119,255	0
Feb	22,426	1,559	0	73,850	97,835	0	97,835	97,835	0
Mar	32,869	2,396	0	89,943	125,207	0	125,207	125,207	0
Apr	43,134	3,144	0	100,162	146,439	0	146,439	146,439	0
May	29,537	2,343	0	91,363	123,243	1,007	122,236	123,243	0
Jun	23,401	2,117	0	85,351	110,869	1,106	109,763	110,869	0
Jul	24,192	2,280	0	90,437	116,909	1,320	115,589	116,909	0
Aug	20,900	2,102	0	88,051	111,054	1,077	109,977	111,054	0
Sep	22,882	2,227	0	88,666	113,774	748	113,026	113,774	0
Oct	34,341	2,903	0	99,509	136,753	452	136,301	136,753	1
Nov	42,585	3,235	0	101,116	146,936	0	146,936	146,936	0
Dec	39,487	2,766	0	99,501	141,753	0	141,753	141,753	0
Annual	366,255	29,192	0	1,094,583	1,490,027	5,710	1,484,317	1,490,027	0

Table 110 Central Pond Water Balance for Year 10

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,735	2,136	0	89,749	122,621	0	122,621	122,621	0
Feb	22,111	1,537	0	76,454	100,102	0	100,102	100,102	0
Mar	32,517	2,370	0	92,610	127,498	0	127,498	127,498	0
Apr	44,097	3,214	0	103,585	150,896	0	150,896	150,896	0
May	30,698	2,435	0	96,071	129,204	1,007	128,197	129,204	0
Jun	22,983	2,079	0	87,785	112,847	1,106	111,741	112,847	0
Jul	23,917	2,254	0	92,908	119,079	1,320	117,759	119,079	0
Aug	21,461	2,159	0	91,934	115,554	1,077	114,477	115,554	0
Sep	23,066	2,245	0	91,492	116,803	748	116,055	116,803	0
Oct	34,254	2,895	0	102,826	139,976	452	139,524	139,976	1
Nov	42,868	3,256	0	103,930	150,054	0	150,054	150,054	0
Dec	39,322	2,755	0	102,699	144,776	0	144,776	144,776	0
Annual	368,029	29,335	0	1,132,043	1,529,410	5,710	1,523,700	1,529,410	0

Table 111 Central Pond Water Balance for Year 11

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,578	2,125	0	92,994	125,697	0	125,697	125,697	0
Feb	24,041	1,671	0	82,168	107,879	0	107,879	107,879	0
Mar	32,913	2,399	0	96,635	131,947	0	131,947	131,947	0
Apr	43,132	3,144	0	106,088	152,363	0	152,363	152,363	0
May	29,754	2,360	0	97,085	129,199	1,007	128,192	129,199	0
Jun	23,204	2,099	0	91,571	116,875	1,106	115,769	116,875	0
Jul	23,964	2,259	0	95,915	122,137	1,320	120,818	122,138	-1
Aug	21,985	2,211	0	95,719	119,915	1,077	118,839	119,916	-1
Sep	22,199	2,160	0	93,974	118,334	748	117,585	118,333	1
Oct	34,214	2,892	0	104,874	141,981	452	141,529	141,981	1
Nov	43,352	3,293	0	108,941	155,587	0	155,587	155,587	0
Dec	39,192	2,745	0	104,487	146,424	0	146,424	146,424	0
Annual	368,528	29,358	0	1,170,451	1,568,338	5,710	1,562,629	1,568,339	-1

Table 112 Central Pond Water Balance for Year 12

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,755	2,138	0	0	32,892	0	32,892	32,892	0
Feb	22,872	1,590	0	0	24,462	0	24,462	24,462	0
Mar	32,876	2,396	0	0	35,272	0	35,272	35,272	0
Apr	43,731	3,187	0	0	46,918	0	46,918	46,918	0
May	29,289	2,323	0	0	31,612	419	31,193	31,612	0
Jun	23,179	2,097	0	0	25,276	419	24,857	25,276	0
Jul	24,244	2,285	0	0	26,529	490	26,039	26,529	0
Aug	21,153	2,128	0	0	23,281	376	22,905	23,281	0
Sep	22,677	2,207	0	0	24,884	270	24,614	24,884	0
Oct	34,084	2,881	0	0	36,965	191	36,774	36,965	0
Nov	43,797	3,327	0	0	47,124	0	47,124	47,124	0
Dec	39,249	2,749	0	0	41,999	0	41,999	41,999	0
Annual	367,906	29,308	0	0	397,214	2,165	395,049	397,214	0

Table 113 Central Pond Water Balance for Year 13

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,097	2,092	0	0	32,189	0	32,189	32,189	0
Feb	22,779	1,583	0	0	24,362	0	24,362	24,362	0
Mar	32,592	2,376	0	0	34,968	0	34,968	34,968	0
Apr	43,315	3,157	0	0	46,472	0	46,472	46,472	0
May	29,477	2,338	0	0	31,815	423	31,392	31,815	0
Jun	23,544	2,130	0	0	25,674	425	25,249	25,674	0
Jul	24,158	2,277	0	0	26,435	490	25,945	26,435	0
Aug	21,353	2,148	0	0	23,501	377	23,124	23,501	1
Sep	22,941	2,233	0	0	25,174	274	24,899	25,173	1
Oct	34,142	2,886	0	0	37,028	190	36,839	37,029	-1
Nov	42,815	3,252	0	0	46,067	0	46,067	46,067	0
Dec	39,085	2,738	0	0	41,823	0	41,823	41,823	0
Annual	366,298	29,210	0	0	395,508	2,178	393,329	395,507	1

Table 114 Central Pond Water Balance for Year 14

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,474	2,118	0	0	32,593	0	32,593	32,593	0
Feb	22,812	1,586	0	0	24,398	0	24,398	24,398	0
Mar	32,901	2,398	0	0	35,299	0	35,299	35,299	0
Apr	44,299	3,229	0	0	47,528	0	47,528	47,528	0
May	29,218	2,317	0	0	31,535	420	31,115	31,535	0
Jun	22,957	2,077	0	0	25,034	420	24,614	25,034	0
Jul	24,112	2,273	0	0	26,385	494	25,891	26,385	0
Aug	21,377	2,150	0	0	23,527	373	23,154	23,527	0
Sep	22,872	2,226	0	0	25,098	272	24,826	25,098	0
Oct	33,768	2,854	0	0	36,622	191	36,432	36,623	-1
Nov	43,156	3,278	0	0	46,435	0	46,435	46,435	0
Dec	38,967	2,730	0	0	41,696	0	41,696	41,696	0
Annual	366,913	29,236	0	0	396,150	2,169	393,981	396,150	0

Table 115 Central Pond Water Balance for Year 15

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,741	2,137	0	0	32,877	0	32,877	32,877	0
Feb	24,125	1,677	0	0	25,802	0	25,802	25,802	0
Mar	32,939	2,401	0	0	35,339	0	35,339	35,339	0
Apr	43,118	3,143	0	0	46,261	0	46,261	46,261	0
May	30,151	2,391	0	0	32,542	426	32,116	32,542	0
Jun	23,082	2,088	0	0	25,170	416	24,754	25,170	0
Jul	23,804	2,244	0	0	26,048	488	25,560	26,048	0
Aug	21,178	2,130	0	0	23,308	375	22,933	23,308	0
Sep	22,444	2,184	0	0	24,628	272	24,357	24,629	-1
Oct	34,759	2,938	0	0	37,697	192	37,505	37,697	0
Nov	42,972	3,264	0	0	46,236	0	46,236	46,236	0
Dec	39,067	2,737	0	0	41,803	0	41,803	41,803	0
Annual	368,380	29,334	0	0	397,711	2,169	395,543	397,712	-1

Table 116 Central Pond Water Balance for Year 16

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,477	2,118	0	0	32,595	0	32,595	32,595	0
Feb	23,226	1,614	0	0	24,840	0	24,840	24,840	0
Mar	33,395	2,434	0	0	35,829	0	35,829	35,829	0
Apr	43,275	3,154	0	0	46,430	0	46,430	46,430	0
May	29,522	2,341	0	0	31,864	426	31,438	31,864	0
Jun	23,311	2,109	0	0	25,420	420	25,001	25,421	-1
Jul	24,765	2,334	0	0	27,100	496	26,603	27,099	1
Aug	21,211	2,133	0	0	23,344	377	22,967	23,344	0
Sep	22,416	2,182	0	0	24,598	272	24,326	24,598	0
Oct	34,121	2,884	0	0	37,005	191	36,814	37,005	0
Nov	42,423	3,223	0	0	45,646	0	45,646	45,646	0
Dec	39,233	2,748	0	0	41,982	0	41,982	41,982	0
Annual	367,375	29,274	0	0	396,653	2,181	394,471	396,652	1

Table 117 Central Pond Water Balance for Year 17

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,444	2,116	0	0	32,561	0	32,561	32,561	0
Feb	22,588	1,570	0	0	24,158	0	24,158	24,158	0
Mar	33,083	2,411	0	0	35,494	0	35,494	35,494	0
Apr	43,968	3,205	0	0	47,172	0	47,172	47,172	0
May	29,473	2,337	0	0	31,810	420	31,390	31,810	0
Jun	23,437	2,120	0	0	25,557	426	25,131	25,557	0
Jul	24,436	2,303	0	0	26,739	494	26,245	26,739	0
Aug	21,208	2,133	0	0	23,342	374	22,968	23,342	0
Sep	23,034	2,242	0	0	25,276	274	25,001	25,275	1
Oct	34,344	2,903	0	0	37,247	191	37,056	37,247	0
Nov	42,865	3,256	0	0	46,121	0	46,121	46,121	0
Dec	39,364	2,758	0	0	42,122	0	42,122	42,122	0
Annual	368,244	29,354	0	0	397,599	2,179	395,419	397,598	1

Table 118 Central Pond Water Balance for Year 18

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	31,022	2,156	0	0	33,179	0	33,179	33,179	0
Feb	22,129	1,538	0	0	23,667	0	23,667	23,667	0
Mar	32,869	2,396	0	0	35,265	0	35,265	35,265	0
Apr	44,276	3,227	0	0	47,503	0	47,503	47,503	0
May	29,421	2,333	0	0	31,754	419	31,335	31,754	1
Jun	22,997	2,081	0	0	25,077	417	24,661	25,078	-1
Jul	24,109	2,273	0	0	26,382	491	25,891	26,382	0
Aug	20,801	2,092	0	0	22,893	370	22,524	22,894	-1
Sep	22,778	2,217	0	0	24,995	273	24,721	24,994	1
Oct	34,432	2,910	0	0	37,342	192	37,150	37,342	0
Nov	42,617	3,237	0	0	45,854	0	45,854	45,854	0
Dec	39,594	2,774	0	0	42,367	0	42,367	42,367	0
Annual	367,045	29,234	0	0	396,278	2,161	394,117	396,278	0

Table 119 Central Pond Water Balance for Year 19

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,747	2,137	0	0	32,885	0	32,885	32,885	0
Feb	24,237	1,685	0	0	25,922	0	25,922	25,922	0
Mar	32,709	2,384	0	0	35,093	0	35,093	35,093	0
Apr	42,979	3,133	0	0	46,111	0	46,111	46,111	0
May	30,091	2,387	0	0	32,478	424	32,054	32,478	0
Jun	22,890	2,071	0	0	24,961	414	24,547	24,961	0
Jul	24,109	2,273	0	0	26,382	489	25,893	26,382	0
Aug	21,131	2,125	0	0	23,256	372	22,884	23,256	0
Sep	22,545	2,194	0	0	24,739	273	24,466	24,739	0
Oct	34,792	2,941	0	0	37,733	191	37,542	37,733	0
Nov	42,903	3,259	0	0	46,162	0	46,162	46,162	0
Dec	39,280	2,752	0	0	42,032	0	42,032	42,032	0
Annual	368,413	29,341	0	0	397,754	2,163	395,591	397,754	0

Table 120 Central Pond Water Balance for Year 20

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,544	2,123	0	0	32,667	0	32,667	32,667	0
Feb	22,974	1,597	0	0	24,571	0	24,571	24,571	0
Mar	33,185	2,419	0	0	35,604	0	35,604	35,604	0
Apr	43,259	3,153	0	0	46,412	0	46,412	46,412	0
May	29,358	2,328	0	0	31,686	423	31,263	31,686	0
Jun	23,492	2,125	0	0	25,618	422	25,196	25,618	0
Jul	24,294	2,290	0	0	26,584	494	26,090	26,584	0
Aug	20,935	2,106	0	0	23,041	373	22,668	23,041	0
Sep	23,016	2,240	0	0	25,256	273	24,983	25,256	0
Oct	34,237	2,894	0	0	37,131	193	36,938	37,131	1
Nov	42,726	3,246	0	0	45,971	0	45,971	45,971	0
Dec	39,170	2,744	0	0	41,914	0	41,914	41,914	0
Annual	367,190	29,265	0	0	396,455	2,177	394,277	396,454	1

Table 121 Central Pond Water Balance for Year 21

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	31,090	2,161	0	0	33,251	0	33,251	33,251	0
Feb	22,728	1,580	0	0	24,308	0	24,308	24,308	0
Mar	33,184	2,419	0	0	35,602	0	35,602	35,602	0
Apr	43,407	3,164	0	0	46,571	0	46,571	46,571	0
May	29,584	2,346	0	0	31,930	422	31,509	31,931	-1
Jun	22,963	2,077	0	0	25,040	422	24,619	25,041	-1
Jul	24,671	2,326	0	0	26,996	491	26,505	26,996	0
Aug	21,580	2,171	0	0	23,751	380	23,371	23,751	0
Sep	23,039	2,242	0	0	25,281	272	25,009	25,281	0
Oct	34,449	2,912	0	0	37,361	192	37,168	37,360	1
Nov	42,809	3,252	0	0	46,060	0	46,060	46,060	0
Dec	39,743	2,784	0	0	42,527	0	42,527	42,527	0
Annual	369,247	29,434	0	0	398,678	2,179	396,500	398,679	-1

Table 122 Central Pond Water Balance for Year 22

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,674	2,132	0	0	32,806	0	32,806	32,806	0
Feb	22,203	1,543	0	0	23,747	0	23,747	23,747	0
Mar	33,124	2,414	0	0	35,539	0	35,539	35,539	0
Apr	44,275	3,227	0	0	47,502	0	47,502	47,502	0
May	29,401	2,332	0	0	31,732	416	31,317	31,733	-1
Jun	22,872	2,069	0	0	24,941	421	24,520	24,941	0
Jul	24,478	2,307	0	0	26,785	497	26,288	26,785	0
Aug	20,873	2,099	0	0	22,972	375	22,597	22,972	0
Sep	22,916	2,230	0	0	25,146	273	24,874	25,147	-1
Oct	34,174	2,889	0	0	37,062	192	36,870	37,062	0
Nov	43,092	3,273	0	0	46,365	0	46,365	46,365	0
Dec	39,771	2,786	0	0	42,557	0	42,557	42,557	0
Annual	367,853	29,301	0	0	397,154	2,174	394,982	397,156	-2

Table 123 Central Pond Water Balance for Year 23

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,275	2,104	0	0	32,379	0	32,379	32,379	0
Feb	24,444	1,699	0	0	26,143	0	26,143	26,143	0
Mar	32,616	2,377	0	0	34,993	0	34,993	34,993	0
Apr	43,017	3,135	0	0	46,153	0	46,153	46,153	0
May	30,166	2,393	0	0	32,559	427	32,132	32,559	0
Jun	23,041	2,085	0	0	25,126	414	24,712	25,126	0
Jul	24,181	2,279	0	0	26,460	489	25,971	26,460	0
Aug	21,222	2,135	0	0	23,357	372	22,985	23,357	0
Sep	22,593	2,199	0	0	24,792	275	24,518	24,793	-1
Oct	34,605	2,925	0	0	37,530	192	37,338	37,530	0
Nov	42,693	3,243	0	0	45,936	0	45,936	45,936	0
Dec	39,653	2,778	0	0	42,431	0	42,431	42,431	0
Annual	368,506	29,352	0	0	397,859	2,169	395,691	397,860	0

Table 124 Central Pond Water Balance for Year 24

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,847	2,144	0	0	32,991	0	32,991	32,991	0
Feb	23,053	1,602	0	0	24,655	0	24,655	24,655	0
Mar	33,299	2,427	0	0	35,726	0	35,726	35,726	0
Apr	43,980	3,206	0	0	47,185	0	47,185	47,185	0
May	29,693	2,355	0	0	32,048	424	31,624	32,048	0
Jun	23,251	2,104	0	0	25,354	420	24,935	25,355	-1
Jul	23,959	2,258	0	0	26,218	489	25,729	26,218	0
Aug	21,374	2,150	0	0	23,524	377	23,147	23,524	0
Sep	22,691	2,208	0	0	24,899	271	24,628	24,899	0
Oct	33,828	2,859	0	0	36,687	189	36,498	36,687	0
Nov	42,771	3,249	0	0	46,020	0	46,020	46,020	0
Dec	39,525	2,769	0	0	42,293	0	42,293	42,293	0
Annual	368,271	29,331	0	0	397,600	2,169	395,431	397,600	0

Table 125 Central Pond Water Balance for Year 25

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,880	2,146	0	0	33,026	0	33,026	33,026	0
Feb	22,638	1,574	0	0	24,212	0	24,212	24,212	0
Mar	33,609	2,450	0	0	36,059	0	36,059	36,059	0
Apr	43,808	3,193	0	0	47,001	0	47,001	47,001	0
May	29,933	2,374	0	0	32,307	425	31,882	32,307	0
Jun	23,129	2,093	0	0	25,222	422	24,800	25,222	0
Jul	24,561	2,315	0	0	26,876	496	26,380	26,876	0
Aug	21,222	2,135	0	0	23,356	376	22,980	23,356	0
Sep	22,843	2,223	0	0	25,066	273	24,793	25,066	0
Oct	34,098	2,882	0	0	36,980	191	36,789	36,980	0
Nov	43,168	3,279	0	0	46,447	0	46,447	46,447	0
Dec	39,419	2,761	0	0	42,180	0	42,180	42,180	0
Annual	369,308	29,425	0	0	398,732	2,183	396,549	398,732	0

Table 126 Central Pond Water Balance for Year 26

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,946	2,151	0	0	33,097	0	33,097	33,097	0
Feb	22,891	1,591	0	0	24,482	0	24,482	24,482	0
Mar	32,645	2,379	0	0	35,025	0	35,025	35,025	0
Apr	44,707	3,259	0	0	47,966	0	47,966	47,966	0
May	29,462	2,337	0	0	31,798	424	31,375	31,799	-1
Jun	22,957	2,077	0	0	25,034	419	24,615	25,034	0
Jul	24,114	2,273	0	0	26,387	497	25,890	26,387	0
Aug	21,032	2,116	0	0	23,148	374	22,774	23,148	0
Sep	23,077	2,246	0	0	25,323	273	25,050	25,323	0
Oct	33,817	2,858	0	0	36,675	192	36,484	36,676	-1
Nov	42,604	3,236	0	0	45,840	0	45,840	45,840	0
Dec	39,321	2,754	0	0	42,075	0	42,075	42,075	0
Annual	367,573	29,277	0	0	396,850	2,179	394,673	396,852	-2

Table 127 Central Pond Water Balance for Year 27

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,401	2,113	0	0	32,514	0	32,514	32,514	0
Feb	24,201	1,682	0	0	25,884	0	25,884	25,884	0
Mar	32,944	2,401	0	0	35,345	0	35,345	35,345	0
Apr	42,785	3,119	0	0	45,904	0	45,904	45,904	0
May	30,206	2,396	0	0	32,602	427	32,175	32,602	0
Jun	23,677	2,142	0	0	25,819	422	25,397	25,819	0
Jul	23,930	2,256	0	0	26,185	491	25,694	26,185	0
Aug	21,760	2,189	0	0	23,949	381	23,568	23,949	0
Sep	22,119	2,153	0	0	24,272	271	24,001	24,272	0
Oct	34,407	2,908	0	0	37,316	193	37,122	37,315	1
Nov	42,559	3,233	0	0	45,792	0	45,792	45,792	0
Dec	38,956	2,729	0	0	41,685	0	41,685	41,685	0
Annual	367,945	29,321	0	0	397,267	2,186	395,081	397,267	0

Table 128 Central Pond Water Balance for Year 28

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,714	2,135	0	0	32,849	0	32,849	32,849	0
Feb	23,098	1,606	0	0	24,704	0	24,704	24,704	0
Mar	33,073	2,411	0	0	35,484	0	35,484	35,484	0
Apr	43,847	3,196	0	0	47,043	0	47,043	47,043	0
May	29,532	2,342	0	0	31,874	422	31,452	31,874	0
Jun	23,257	2,104	0	0	25,361	425	24,936	25,361	0
Jul	24,172	2,278	0	0	26,450	500	25,950	26,450	0
Aug	21,628	2,175	0	0	23,803	379	23,424	23,803	0
Sep	22,671	2,206	0	0	24,877	272	24,605	24,877	0
Oct	33,938	2,869	0	0	36,807	192	36,615	36,807	0
Nov	42,832	3,254	0	0	46,085	0	46,085	46,085	0
Dec	38,918	2,726	0	0	41,644	0	41,644	41,644	0
Annual	367,680	29,302	0	0	396,981	2,190	394,791	396,981	0

Table 129 Central Pond Water Balance for Year 29

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,774	2,139	0	0	32,913	0	32,913	32,913	0
Feb	22,454	1,561	0	0	24,015	0	24,015	24,015	0
Mar	32,833	2,393	0	0	35,226	0	35,226	35,226	0
Apr	43,980	3,206	0	0	47,186	0	47,186	47,186	0
May	29,266	2,321	0	0	31,587	421	31,166	31,587	0
Jun	23,292	2,107	0	0	25,400	423	24,977	25,400	0
Jul	23,845	2,248	0	0	26,093	490	25,603	26,093	0
Aug	21,258	2,138	0	0	23,396	377	23,019	23,396	0
Sep	23,042	2,243	0	0	25,285	273	25,012	25,285	0
Oct	34,364	2,905	0	0	37,269	193	37,076	37,269	1
Nov	42,890	3,258	0	0	46,148	0	46,148	46,148	0
Dec	39,130	2,741	0	0	41,872	0	41,872	41,872	0
Annual	367,128	29,260	0	0	396,390	2,178	394,213	396,391	-1

Table 130 Central Pond Water Balance for Year 30

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,648	2,130	0	0	32,779	0	32,779	32,779	0
Feb	22,916	1,593	0	0	24,508	0	24,508	24,508	0
Mar	33,105	2,413	0	0	35,518	0	35,518	35,518	0
Apr	44,919	3,274	0	0	48,193	0	48,193	48,193	0
May	29,424	2,334	0	0	31,757	422	31,336	31,758	-1
Jun	23,383	2,116	0	0	25,499	425	25,074	25,499	0
Jul	24,416	2,301	0	0	26,717	497	26,220	26,717	0
Aug	20,942	2,106	0	0	23,049	375	22,673	23,048	1
Sep	22,735	2,213	0	0	24,947	272	24,675	24,947	0
Oct	34,195	2,890	0	0	37,086	192	36,894	37,086	0
Nov	43,132	3,276	0	0	46,409	0	46,409	46,409	0
Dec	38,891	2,724	0	0	41,616	0	41,616	41,616	0
Annual	368,706	29,370	0	0	398,078	2,183	395,895	398,078	0

Table 131 Central Pond Water Balance for Year 31

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,664	2,131	0	0	32,795	0	32,795	32,795	0
Feb	24,296	1,689	0	0	25,985	0	25,985	25,985	0
Mar	33,324	2,429	0	0	35,753	0	35,753	35,753	0
Apr	43,120	3,143	0	0	46,262	0	46,262	46,262	0
May	30,085	2,386	0	0	32,471	426	32,044	32,470	1
Jun	23,203	2,099	0	0	25,302	420	24,882	25,302	0
Jul	23,872	2,250	0	0	26,122	488	25,635	26,123	-1
Aug	21,354	2,148	0	0	23,502	381	23,121	23,502	0
Sep	22,638	2,203	0	0	24,841	274	24,567	24,841	0
Oct	34,478	2,914	0	0	37,393	191	37,202	37,393	0
Nov	42,725	3,246	0	0	45,971	0	45,971	45,971	0
Dec	38,652	2,708	0	0	41,359	0	41,359	41,359	0
Annual	368,411	29,346	0	0	397,756	2,181	395,576	397,757	-1

Table 132 Central Pond Water Balance for Year 32

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,583	2,126	0	0	32,708	0	32,708	32,708	0
Feb	23,434	1,629	0	0	25,063	0	25,063	25,063	0
Mar	32,772	2,389	0	0	35,160	0	35,160	35,160	0
Apr	43,836	3,195	0	0	47,031	0	47,031	47,031	0
May	30,278	2,401	0	0	32,679	426	32,253	32,679	0
Jun	23,185	2,098	0	0	25,282	420	24,862	25,282	0
Jul	23,910	2,254	0	0	26,164	493	25,671	26,164	0
Aug	21,413	2,154	0	0	23,567	374	23,193	23,567	0
Sep	22,468	2,187	0	0	24,655	273	24,381	24,654	1
Oct	34,865	2,947	0	0	37,812	193	37,618	37,811	1
Nov	42,613	3,237	0	0	45,850	0	45,850	45,850	0
Dec	40,017	2,803	0	0	42,820	0	42,820	42,820	0
Annual	369,374	29,420	0	0	398,791	2,181	396,610	398,791	0

Table 133 Central Pond Water Balance for Year 33

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,473	2,118	0	0	32,592	0	32,592	32,592	0
Feb	22,823	1,586	0	0	24,409	0	24,409	24,409	0
Mar	33,366	2,432	0	0	35,798	0	35,798	35,798	0
Apr	43,465	3,168	0	0	46,633	0	46,633	46,633	0
May	29,402	2,332	0	0	31,734	422	31,313	31,735	-1
Jun	22,812	2,064	0	0	24,876	422	24,454	24,876	0
Jul	24,012	2,263	0	0	26,276	493	25,783	26,276	0
Aug	21,389	2,151	0	0	23,540	377	23,163	23,540	0
Sep	23,116	2,250	0	0	25,366	276	25,089	25,365	1
Oct	34,313	2,900	0	0	37,213	194	37,019	37,213	0
Nov	43,040	3,270	0	0	46,310	0	46,310	46,310	0
Dec	39,264	2,750	0	0	42,015	0	42,015	42,015	0
Annual	367,475	29,284	0	0	396,762	2,184	394,578	396,762	0

Table 134 Central Pond Water Balance for Year 34

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,817	2,142	0	0	32,959	0	32,959	32,959	0
Feb	22,494	1,564	0	0	24,057	0	24,057	24,057	0
Mar	33,081	2,411	0	0	35,492	0	35,492	35,492	0
Apr	44,137	3,217	0	0	47,354	0	47,354	47,354	0
May	29,233	2,318	0	0	31,551	420	31,132	31,552	-1
Jun	23,074	2,088	0	0	25,161	423	24,738	25,161	0
Jul	24,209	2,282	0	0	26,491	498	25,993	26,491	0
Aug	20,964	2,109	0	0	23,073	377	22,697	23,074	-1
Sep	22,933	2,232	0	0	25,165	270	24,895	25,165	0
Oct	34,453	2,912	0	0	37,365	193	37,172	37,365	1
Nov	42,591	3,235	0	0	45,826	0	45,826	45,826	0
Dec	39,077	2,737	0	0	41,814	0	41,814	41,814	0
Annual	367,063	29,247	0	0	396,308	2,180	394,129	396,309	-1

Table 135 Central Pond Water Balance for Year 35

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,924	2,150	0	0	33,073	0	33,073	33,073	0
Feb	23,840	1,657	0	0	25,497	0	25,497	25,497	0
Mar	33,090	2,412	0	0	35,502	0	35,502	35,502	0
Apr	42,998	3,134	0	0	46,132	0	46,132	46,132	0
May	30,115	2,388	0	0	32,503	428	32,076	32,504	-1
Jun	23,037	2,084	0	0	25,122	417	24,705	25,122	1
Jul	24,016	2,264	0	0	26,280	492	25,787	26,279	1
Aug	21,222	2,135	0	0	23,357	379	22,978	23,357	0
Sep	22,593	2,199	0	0	24,792	274	24,518	24,792	0
Oct	35,064	2,964	0	0	38,028	194	37,834	38,028	0
Nov	42,249	3,209	0	0	45,458	0	45,458	45,458	0
Dec	39,431	2,762	0	0	42,193	0	42,193	42,193	0
Annual	368,579	29,358	0	0	397,937	2,183	395,753	397,936	1

Table 136 Central Pond Water Balance for Year 36

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,533	2,122	0	0	32,656	0	32,656	32,656	0
Feb	22,935	1,594	0	0	24,529	0	24,529	24,529	0
Mar	33,727	2,458	0	0	36,185	0	36,185	36,185	0
Apr	43,238	3,152	0	0	46,390	0	46,390	46,390	0
May	30,275	2,401	0	0	32,676	426	32,250	32,676	0
Jun	23,240	2,103	0	0	25,342	420	24,922	25,342	0
Jul	24,013	2,263	0	0	26,276	491	25,785	26,276	0
Aug	21,744	2,187	0	0	23,931	377	23,554	23,931	0
Sep	22,531	2,193	0	0	24,723	272	24,451	24,723	0
Oct	33,974	2,872	0	0	36,845	192	36,654	36,846	-1
Nov	43,057	3,271	0	0	46,328	0	46,328	46,328	0
Dec	39,257	2,750	0	0	42,007	0	42,007	42,007	0
Annual	368,524	29,366	0	0	397,888	2,179	395,711	397,890	-1

Table 137 Central Pond Water Balance for Year 37

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	31,038	2,157	0	0	33,195	0	33,195	33,195	0
Feb	22,791	1,584	0	0	24,375	0	24,375	24,375	0
Mar	32,793	2,390	0	0	35,183	0	35,183	35,183	0
Apr	43,304	3,156	0	0	46,460	0	46,460	46,460	0
May	29,716	2,357	0	0	32,073	420	31,653	32,073	0
Jun	23,299	2,108	0	0	25,407	423	24,984	25,407	0
Jul	24,261	2,287	0	0	26,547	496	26,052	26,548	-1
Aug	21,150	2,127	0	0	23,277	374	22,902	23,276	1
Sep	22,662	2,206	0	0	24,868	274	24,594	24,868	0
Oct	33,954	2,870	0	0	36,824	192	36,632	36,824	0
Nov	42,703	3,244	0	0	45,947	0	45,947	45,947	0
Dec	39,611	2,775	0	0	42,386	0	42,386	42,386	0
Annual	367,282	29,261	0	0	396,542	2,180	394,363	396,543	-1

Table 138 Central Pond Water Balance for Year 38

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,617	2,128	0	0	32,745	0	32,745	32,745	0
Feb	22,959	1,596	0	0	24,554	0	24,554	24,554	0
Mar	32,713	2,384	0	0	35,098	0	35,098	35,098	0
Apr	44,285	3,228	0	0	47,513	0	47,513	47,513	0
May	29,696	2,355	0	0	32,051	424	31,627	32,051	0
Jun	22,882	2,070	0	0	24,952	420	24,532	24,952	0
Jul	24,519	2,311	0	0	26,830	500	26,331	26,831	-1
Aug	20,955	2,108	0	0	23,063	376	22,687	23,063	0
Sep	24,293	2,364	0	0	26,658	275	26,383	26,658	0
Oct	34,165	2,888	0	0	37,053	192	36,861	37,053	0
Nov	42,615	3,237	0	0	45,852	0	45,852	45,852	0
Dec	39,482	2,766	0	0	42,248	0	42,248	42,248	0
Annual	369,181	29,435	0	0	398,617	2,187	396,431	398,618	-1

Table 139 Central Pond Water Balance for Year 39

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	31,092	2,161	0	0	33,253	0	33,253	33,253	0
Feb	23,939	1,664	0	0	25,603	0	25,603	25,603	0
Mar	32,998	2,405	0	0	35,403	0	35,403	35,403	0
Apr	43,250	3,152	0	0	46,403	0	46,403	46,403	0
May	30,206	2,396	0	0	32,602	430	32,172	32,602	0
Jun	23,037	2,084	0	0	25,122	420	24,702	25,122	1
Jul	23,680	2,232	0	0	25,912	485	25,427	25,912	0
Aug	21,443	2,157	0	0	23,600	380	23,220	23,600	0
Sep	22,520	2,192	0	0	24,712	272	24,440	24,712	0
Oct	33,958	2,870	0	0	36,828	191	36,637	36,828	0
Nov	43,320	3,291	0	0	46,611	0	46,611	46,611	0
Dec	38,962	2,729	0	0	41,691	0	41,691	41,691	0
Annual	368,405	29,333	0	0	397,740	2,178	395,562	397,740	0

Table 140 Central Pond Water Balance for Year 40

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,768	2,139	0	0	32,907	0	32,907	32,907	0
Feb	23,516	1,635	0	0	25,151	0	25,151	25,151	0
Mar	33,013	2,406	0	0	35,419	0	35,419	35,419	0
Apr	43,474	3,169	0	0	46,642	0	46,642	46,642	0
May	30,173	2,393	0	0	32,566	425	32,141	32,566	0
Jun	23,056	2,086	0	0	25,142	418	24,724	25,142	0
Jul	24,633	2,322	0	0	26,955	492	26,463	26,955	0
Aug	21,364	2,149	0	0	23,513	375	23,137	23,512	1
Sep	22,720	2,211	0	0	24,931	272	24,659	24,931	0
Oct	34,275	2,897	0	0	37,172	192	36,980	37,172	0
Nov	42,611	3,237	0	0	45,848	0	45,848	45,848	0
Dec	39,093	2,738	0	0	41,831	0	41,831	41,831	0
Annual	368,696	29,382	0	0	398,077	2,175	395,902	398,077	1

Table 141 Central Pond Water Balance for Year 41

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,798	2,141	0	0	32,939	0	32,939	32,939	0
Feb	23,247	1,616	0	0	24,863	0	24,863	24,863	0
Mar	33,463	2,439	0	0	35,902	0	35,902	35,902	0
Apr	43,679	3,184	0	0	46,863	0	46,863	46,863	0
May	29,236	2,319	0	0	31,555	419	31,136	31,555	0
Jun	23,067	2,087	0	0	25,154	420	24,733	25,153	1
Jul	24,513	2,311	0	0	26,824	495	26,329	26,824	0
Aug	21,275	2,140	0	0	23,415	377	23,037	23,414	1
Sep	22,544	2,194	0	0	24,738	272	24,466	24,738	0
Oct	34,359	2,904	0	0	37,263	192	37,071	37,263	0
Nov	42,636	3,239	0	0	45,875	0	45,875	45,875	0
Dec	39,297	2,753	0	0	42,050	0	42,050	42,050	0
Annual	368,114	29,327	0	0	397,441	2,175	395,264	397,439	2

Table 142 Central Pond Water Balance for Year 42

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	31,071	2,160	0	0	33,231	0	33,231	33,231	0
Feb	22,457	1,561	0	0	24,018	0	24,018	24,018	0
Mar	32,813	2,392	0	0	35,204	0	35,204	35,204	0
Apr	44,174	3,220	0	0	47,394	0	47,394	47,394	0
May	29,531	2,342	0	0	31,873	422	31,451	31,873	0
Jun	23,111	2,091	0	0	25,201	420	24,781	25,201	0
Jul	24,467	2,306	0	0	26,773	499	26,274	26,773	0
Aug	21,032	2,116	0	0	23,148	376	22,772	23,148	0
Sep	22,846	2,223	0	0	25,069	274	24,795	25,069	0
Oct	35,038	2,962	0	0	38,000	193	37,807	38,000	1
Nov	43,042	3,270	0	0	46,312	0	46,312	46,312	0
Dec	39,358	2,757	0	0	42,115	0	42,115	42,115	0
Annual	368,940	29,400	0	0	398,338	2,183	396,154	398,337	1

Table 143 Central Pond Water Balance for Year 43

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,735	2,136	0	0	32,872	0	32,872	32,872	0
Feb	23,857	1,658	0	0	25,515	0	25,515	25,515	0
Mar	33,141	2,416	0	0	35,557	0	35,557	35,557	0
Apr	43,629	3,180	0	0	46,809	0	46,809	46,809	0
May	29,785	2,362	0	0	32,147	428	31,720	32,148	-1
Jun	22,919	2,074	0	0	24,993	420	24,574	24,994	-1
Jul	23,925	2,255	0	0	26,180	488	25,692	26,180	0
Aug	21,263	2,139	0	0	23,402	377	23,026	23,403	-1
Sep	22,475	2,187	0	0	24,662	272	24,390	24,662	0
Oct	34,204	2,891	0	0	37,095	191	36,905	37,096	-1
Nov	42,639	3,239	0	0	45,878	0	45,878	45,878	0
Dec	38,747	2,714	0	0	41,462	0	41,462	41,462	0
Annual	367,319	29,251	0	0	396,572	2,174	394,400	396,574	-2

Table 144 Central Pond Water Balance for Year 44

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,582	2,126	0	0	32,708	0	32,708	32,708	0
Feb	23,539	1,636	0	0	25,175	0	25,175	25,175	0
Mar	33,712	2,457	0	0	36,170	0	36,170	36,170	0
Apr	43,852	3,196	0	0	47,048	0	47,048	47,048	0
May	29,705	2,356	0	0	32,061	422	31,638	32,060	1
Jun	23,068	2,087	0	0	25,155	420	24,735	25,155	0
Jul	24,264	2,287	0	0	26,551	493	26,058	26,551	0
Aug	21,521	2,165	0	0	23,686	374	23,311	23,685	1
Sep	22,489	2,189	0	0	24,678	273	24,405	24,678	0
Oct	34,589	2,924	0	0	37,512	193	37,319	37,512	0
Nov	43,435	3,300	0	0	46,735	0	46,735	46,735	0
Dec	38,761	2,715	0	0	41,476	0	41,476	41,476	0
Annual	369,517	29,438	0	0	398,955	2,176	396,778	398,954	1

Table 145 Central Pond Water Balance for Year 45

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,565	2,125	0	0	32,690	0	32,690	32,690	0
Feb	23,017	1,600	0	0	24,617	0	24,617	24,617	0
Mar	33,189	2,419	0	0	35,608	0	35,608	35,608	0
Apr	44,384	3,235	0	0	47,619	0	47,619	47,619	0
May	29,492	2,339	0	0	31,831	420	31,410	31,830	1
Jun	23,151	2,094	0	0	25,245	422	24,823	25,245	0
Jul	23,893	2,252	0	0	26,145	490	25,655	26,145	0
Aug	21,557	2,168	0	0	23,725	377	23,349	23,726	-1
Sep	22,715	2,211	0	0	24,925	271	24,654	24,925	0
Oct	34,168	2,888	0	0	37,056	191	36,865	37,056	0
Nov	42,517	3,230	0	0	45,747	0	45,747	45,747	0
Dec	39,449	2,763	0	0	42,213	0	42,213	42,213	0
Annual	368,097	29,324	0	0	397,421	2,171	395,250	397,421	0

Table 146 Central Pond Water Balance for Year 46

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,120	2,094	0	0	32,213	0	32,213	32,213	0
Feb	22,359	1,554	0	0	23,914	0	23,914	23,914	0
Mar	32,665	2,381	0	0	35,046	0	35,046	35,046	0
Apr	44,380	3,235	0	0	47,615	0	47,615	47,615	0
May	29,235	2,319	0	0	31,553	422	31,132	31,554	-1
Jun	23,042	2,085	0	0	25,127	422	24,705	25,127	0
Jul	24,015	2,264	0	0	26,279	495	25,784	26,279	0
Aug	21,118	2,124	0	0	23,242	376	22,866	23,242	0
Sep	22,967	2,235	0	0	25,202	274	24,928	25,202	0
Oct	34,063	2,879	0	0	36,943	192	36,751	36,943	0
Nov	42,985	3,265	0	0	46,250	0	46,250	46,250	0
Dec	39,267	2,751	0	0	42,018	0	42,018	42,018	0
Annual	366,216	29,186	0	0	395,402	2,180	393,222	395,402	0

Table 147 Central Pond Water Balance for Year 47

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,722	2,135	0	0	32,857	0	32,857	32,857	0
Feb	23,835	1,657	0	0	25,491	0	25,491	25,491	0
Mar	33,209	2,421	0	0	35,630	0	35,630	35,630	0
Apr	42,711	3,113	0	0	45,824	0	45,824	45,824	0
May	30,312	2,404	0	0	32,717	430	32,287	32,717	1
Jun	22,950	2,076	0	0	25,026	417	24,609	25,026	0
Jul	23,797	2,243	0	0	26,040	489	25,551	26,040	0
Aug	21,380	2,150	0	0	23,531	377	23,154	23,531	0
Sep	22,630	2,202	0	0	24,833	273	24,559	24,832	1
Oct	35,085	2,966	0	0	38,051	191	37,860	38,051	0
Nov	42,679	3,242	0	0	45,921	0	45,921	45,921	0
Dec	39,133	2,741	0	0	41,874	0	41,874	41,874	0
Annual	368,443	29,350	0	0	397,795	2,177	395,617	397,794	1

Table 148 Central Pond Water Balance for Year 48

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,498	2,120	0	0	32,617	0	32,617	32,617	0
Feb	23,639	1,643	0	0	25,282	0	25,282	25,282	0
Mar	32,955	2,402	0	0	35,357	0	35,357	35,357	0
Apr	42,982	3,133	0	0	46,114	0	46,114	46,114	0
May	29,645	2,351	0	0	31,996	427	31,569	31,996	0
Jun	23,210	2,100	0	0	25,309	421	24,888	25,309	0
Jul	24,284	2,289	0	0	26,573	495	26,078	26,573	0
Aug	21,649	2,177	0	0	23,826	381	23,445	23,826	0
Sep	22,222	2,163	0	0	24,384	270	24,114	24,384	0
Oct	34,684	2,932	0	0	37,616	193	37,423	37,616	0
Nov	43,420	3,298	0	0	46,718	0	46,718	46,718	0
Dec	39,229	2,748	0	0	41,977	0	41,977	41,977	0
Annual	368,417	29,356	0	0	397,769	2,186	395,582	397,768	1

Table 149 Central Pond Water Balance for Year 49

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	31,026	2,157	0	0	33,183	0	33,183	33,183	0
Feb	22,538	1,567	0	0	24,105	0	24,105	24,105	0
Mar	32,860	2,395	0	0	35,255	0	35,255	35,255	0
Apr	44,348	3,232	0	0	47,580	0	47,580	47,580	0
May	30,270	2,401	0	0	32,670	423	32,247	32,670	0
Jun	23,238	2,102	0	0	25,341	417	24,923	25,340	1
Jul	24,536	2,313	0	0	26,849	488	26,361	26,849	0
Aug	21,129	2,125	0	0	23,255	373	22,882	23,255	0
Sep	22,413	2,181	0	0	24,594	269	24,325	24,594	0
Oct	33,672	2,846	0	0	36,518	191	36,327	36,518	0
Nov	43,147	3,278	0	0	46,425	0	46,425	46,425	0
Dec	39,032	2,734	0	0	41,766	0	41,766	41,766	0
Annual	368,209	29,331	0	0	397,541	2,161	395,379	397,540	1

Table 150 Central Pond Water Balance for Year 50

Month	Inflow Summary (m3)					Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	East Pond Dewatering	West Pit Dewatering	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	30,567	2,125	0	0	32,692	0	32,692	32,692	0
Feb	22,575	1,569	0	0	24,144	0	24,144	24,144	0
Mar	32,861	2,395	0	0	35,256	0	35,256	35,256	0
Apr	43,788	3,192	0	0	46,979	0	46,979	46,979	0
May	29,254	2,320	0	0	31,574	420	31,154	31,574	0
Jun	22,912	2,073	0	0	24,985	421	24,564	24,985	0
Jul	23,851	2,248	0	0	26,100	494	25,606	26,100	0
Aug	21,160	2,128	0	0	23,288	373	22,915	23,288	0
Sep	22,878	2,226	0	0	25,104	273	24,831	25,104	0
Oct	33,913	2,866	0	0	36,779	192	36,587	36,779	0
Nov	43,262	3,286	0	0	46,548	0	46,548	46,548	0
Dec	38,995	2,732	0	0	41,727	0	41,727	41,727	0
Annual	366,016	29,160	0	0	395,176	2,173	393,003	395,176	0

Table 151 Southwest Pond Water Balance for Year 1

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,855	0	2,855	0	2,855	2,855	0
Feb	2,103	0	2,103	0	2,103	2,103	0
Mar	3,171	0	3,171	0	3,171	3,171	0
Apr	4,266	0	4,266	0	4,266	4,266	0
May	3,111	0	3,111	348	2,787	3,135	-24
Jun	2,776	0	2,776	382	2,401	2,783	-7
Jul	3,007	0	3,007	456	2,549	3,005	2
Aug	2,851	0	2,851	372	2,482	2,854	-3
Sep	2,974	0	2,974	258	2,698	2,956	18
Oct	3,788	0	3,788	156	3,626	3,782	6
Nov	4,353	0	4,353	0	4,345	4,345	8
Dec	3,608	0	3,608	0	3,608	3,608	0
Annual	38,863	0	38,863	1,972	36,891	38,863	0

Table 152 Southwest Pond Water Balance for Year 2

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	12,304	0	12,304	0	12,304	12,304	0
Feb	9,099	0	9,099	0	9,099	9,099	0
Mar	12,788	0	12,788	0	12,788	12,788	0
Apr	17,188	0	17,188	0	17,188	17,188	0
May	10,689	0	10,689	348	10,360	10,708	-19
Jun	7,292	0	7,292	382	6,919	7,301	-9
Jul	7,118	0	7,118	456	6,655	7,111	7
Aug	5,901	0	5,901	372	5,532	5,904	-3
Sep	6,604	0	6,604	258	6,333	6,591	13
Oct	11,681	0	11,681	156	11,521	11,677	4
Nov	16,200	0	16,200	0	16,192	16,192	8
Dec	15,791	0	15,791	0	15,791	15,791	0
Annual	132,655	0	132,655	1,972	130,682	132,654	1

Table 153 Southwest Pond Water Balance for Year 3

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	12,351	0	12,351	0	12,351	12,351	0
Feb	9,873	0	9,873	0	9,873	9,873	0
Mar	12,750	0	12,750	0	12,750	12,750	0
Apr	16,772	0	16,772	0	16,772	16,772	0
May	10,638	0	10,638	348	10,307	10,655	-17
Jun	7,238	0	7,238	382	6,864	7,246	-8
Jul	7,137	0	7,137	456	6,683	7,139	-2
Aug	5,805	0	5,805	372	5,432	5,804	1
Sep	6,502	0	6,502	258	6,231	6,489	13
Oct	11,814	0	11,814	156	11,654	11,810	4
Nov	15,880	0	15,880	0	15,871	15,871	9
Dec	15,731	0	15,731	0	15,731	15,731	0
Annual	132,491	0	132,491	1,972	130,519	132,491	0

Table 154 Southwest Pond Water Balance for Year 4

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	12,471	0	12,471	0	12,471	12,471	0
Feb	9,302	0	9,302	0	9,302	9,302	0
Mar	12,831	0	12,831	0	12,831	12,831	0
Apr	16,917	0	16,917	0	16,917	16,917	0
May	10,847	0	10,847	348	10,517	10,865	-18
Jun	7,196	0	7,196	382	6,821	7,203	-7
Jul	7,202	0	7,202	456	6,745	7,201	1
Aug	5,777	0	5,777	372	5,406	5,778	-1
Sep	6,540	0	6,540	258	6,271	6,529	11
Oct	11,823	0	11,823	156	11,662	11,818	5
Nov	15,977	0	15,977	0	15,967	15,967	10
Dec	15,983	0	15,983	0	15,983	15,983	0
Annual	132,866	0	132,866	1,972	130,893	132,865	1

Table 155 Southwest Pond Water Balance for Year 5

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	12,481	0	12,481	0	12,481	12,481	0
Feb	9,149	0	9,149	0	9,149	9,149	0
Mar	12,791	0	12,791	0	12,791	12,791	0
Apr	16,917	0	16,917	0	16,917	16,917	0
May	10,545	0	10,545	348	10,217	10,565	-20
Jun	7,235	0	7,235	382	6,857	7,239	-4
Jul	7,266	0	7,266	456	6,808	7,264	2
Aug	5,812	0	5,812	372	5,442	5,814	-2
Sep	6,699	0	6,699	258	6,430	6,688	11
Oct	11,842	0	11,842	156	11,682	11,838	4
Nov	16,194	0	16,194	0	16,186	16,186	8
Dec	15,909	0	15,909	0	15,909	15,909	0
Annual	132,840	0	132,840	1,972	130,869	132,841	-1

Table 156 Southwest Pond Water Balance for Year 6

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	12,807	0	12,807	0	12,807	12,807	0
Feb	9,202	0	9,202	0	9,202	9,202	0
Mar	12,579	0	12,579	0	12,579	12,579	0
Apr	17,062	0	17,062	0	17,062	17,062	0
May	10,689	0	10,689	348	10,361	10,709	-20
Jun	7,171	0	7,171	382	6,799	7,181	-10
Jul	7,159	0	7,159	456	6,695	7,151	8
Aug	5,943	0	5,943	372	5,575	5,947	-4
Sep	6,699	0	6,699	258	6,428	6,686	13
Oct	11,555	0	11,555	156	11,395	11,551	4
Nov	16,207	0	16,207	0	16,199	16,199	8
Dec	15,717	0	15,717	0	15,717	15,717	0
Annual	132,790	0	132,790	1,972	130,819	132,791	-1

Table 157 Southwest Pond Water Balance for Year 7

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	12,515	0	12,515	0	12,515	12,515	0
Feb	9,667	0	9,667	0	9,667	9,667	0
Mar	12,817	0	12,817	0	12,817	12,817	0
Apr	16,895	0	16,895	0	16,895	16,895	0
May	10,704	0	10,704	348	10,373	10,721	-17
Jun	7,212	0	7,212	382	6,838	7,220	-8
Jul	7,358	0	7,358	456	6,904	7,360	-2
Aug	5,949	0	5,949	372	5,575	5,947	2
Sep	6,511	0	6,511	258	6,242	6,500	11
Oct	11,912	0	11,912	156	11,752	11,908	4
Nov	15,764	0	15,764	0	15,755	15,755	9
Dec	16,078	0	16,078	0	16,078	16,078	0
Annual	133,382	0	133,382	1,972	131,411	133,383	-1

Table 158 Southwest Pond Water Balance for Year 8

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,789	0	2,789	0	2,789	2,789	0
Feb	2,131	0	2,131	0	2,131	2,131	0
Mar	3,177	0	3,177	0	3,177	3,177	0
Apr	4,197	0	4,197	0	4,197	4,197	0
May	3,080	0	3,080	348	2,754	3,102	-22
Jun	2,784	0	2,784	382	2,411	2,793	-9
Jul	3,031	0	3,031	456	2,574	3,030	1
Aug	2,866	0	2,866	372	2,497	2,869	-3
Sep	2,889	0	2,889	258	2,613	2,871	18
Oct	3,815	0	3,815	156	3,654	3,810	5
Nov	4,317	0	4,317	0	4,307	4,307	10
Dec	3,620	0	3,620	0	3,620	3,620	0
Annual	38,696	0	38,696	1,972	36,724	38,696	0

Table 159 Southwest Pond Water Balance for Year 9

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,810	0	2,810	0	2,810	2,810	0
Feb	2,066	0	2,066	0	2,066	2,066	0
Mar	3,175	0	3,175	0	3,175	3,175	0
Apr	4,167	0	4,167	0	4,167	4,167	0
May	3,105	0	3,105	348	2,781	3,129	-24
Jun	2,806	0	2,806	382	2,430	2,812	-6
Jul	3,022	0	3,022	456	2,566	3,022	0
Aug	2,786	0	2,786	372	2,416	2,788	-2
Sep	2,951	0	2,951	258	2,675	2,933	18
Oct	3,847	0	3,847	156	3,686	3,842	5
Nov	4,287	0	4,287	0	4,278	4,278	9
Dec	3,666	0	3,666	0	3,666	3,666	0
Annual	38,688	0	38,688	1,972	36,716	38,688	0

Table 160 Southwest Pond Water Balance for Year 10

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,831	0	2,831	0	2,831	2,831	0
Feb	2,037	0	2,037	0	2,037	2,037	0
Mar	3,141	0	3,141	0	3,141	3,141	0
Apr	4,260	0	4,260	0	4,260	4,260	0
May	3,227	0	3,227	348	2,903	3,251	-24
Jun	2,756	0	2,756	382	2,382	2,764	-8
Jul	2,988	0	2,988	456	2,527	2,983	5
Aug	2,861	0	2,861	372	2,492	2,864	-3
Sep	2,975	0	2,975	258	2,698	2,956	19
Oct	3,837	0	3,837	156	3,676	3,832	5
Nov	4,316	0	4,316	0	4,307	4,307	9
Dec	3,651	0	3,651	0	3,651	3,651	0
Annual	38,880	0	38,880	1,972	36,905	38,877	3

Table 161 Southwest Pond Water Balance for Year 11

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,817	0	2,817	0	2,817	2,817	0
Feb	2,215	0	2,215	0	2,215	2,215	0
Mar	3,179	0	3,179	0	3,179	3,179	0
Apr	4,166	0	4,166	0	4,166	4,166	0
May	3,127	0	3,127	348	2,800	3,148	-21
Jun	2,782	0	2,782	382	2,411	2,793	-11
Jul	2,994	0	2,994	456	2,540	2,996	-2
Aug	2,931	0	2,931	372	2,558	2,930	1
Sep	2,863	0	2,863	258	2,588	2,846	17
Oct	3,833	0	3,833	156	3,671	3,827	6
Nov	4,364	0	4,364	0	4,354	4,354	10
Dec	3,638	0	3,638	0	3,638	3,638	0
Annual	38,909	0	38,909	1,972	36,937	38,909	0

Table 162 Southwest Pond Water Balance for Year 12

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,125	0	2,125	0	2,125	2,125	0
Feb	1,580	0	1,580	0	1,580	1,580	0
Mar	2,190	0	2,190	0	2,190	2,190	0
Apr	2,876	0	2,876	0	2,876	2,876	0
May	1,778	0	1,778	348	1,460	1,808	-30
Jun	1,197	0	1,197	382	833	1,215	-18
Jul	1,174	0	1,174	456	733	1,189	-15
Aug	923	0	923	372	552	924	-1
Sep	1,058	0	1,058	258	761	1,020	38
Oct	1,941	0	1,941	156	1,774	1,930	11
Nov	2,774	0	2,774	0	2,762	2,762	12
Dec	2,701	0	2,701	0	2,701	2,701	0
Annual	22,317	0	22,317	1,972	20,347	22,319	-2

Table 163 Southwest Pond Water Balance for Year 13

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,079	0	2,079	0	2,079	2,079	0
Feb	1,574	0	1,574	0	1,574	1,574	0
Mar	2,171	0	2,171	0	2,171	2,171	0
Apr	2,849	0	2,849	0	2,849	2,849	0
May	1,789	0	1,789	348	1,471	1,819	-30
Jun	1,216	0	1,216	382	849	1,231	-15
Jul	1,170	0	1,170	456	734	1,190	-20
Aug	932	0	932	372	553	925	7
Sep	1,071	0	1,071	258	777	1,036	35
Oct	1,945	0	1,945	156	1,778	1,934	11
Nov	2,712	0	2,712	0	2,700	2,700	12
Dec	2,690	0	2,690	0	2,690	2,690	0
Annual	22,198	0	22,198	1,972	20,226	22,198	0

Table 164 Southwest Pond Water Balance for Year 14

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,105	0	2,105	0	2,105	2,105	0
Feb	1,576	0	1,576	0	1,576	1,576	0
Mar	2,192	0	2,192	0	2,192	2,192	0
Apr	2,914	0	2,914	0	2,914	2,914	0
May	1,773	0	1,773	348	1,456	1,804	-31
Jun	1,186	0	1,186	382	820	1,202	-16
Jul	1,168	0	1,168	456	727	1,183	-15
Aug	933	0	933	372	557	929	4
Sep	1,068	0	1,068	258	775	1,034	34
Oct	1,923	0	1,923	156	1,756	1,912	11
Nov	2,734	0	2,734	0	2,722	2,722	12
Dec	2,682	0	2,682	0	2,682	2,682	0
Annual	22,254	0	22,254	1,972	20,282	22,255	-1

Table 165 Southwest Pond Water Balance for Year 15

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,124	0	2,124	0	2,124	2,124	0
Feb	1,667	0	1,667	0	1,667	1,667	0
Mar	2,194	0	2,194	0	2,194	2,194	0
Apr	2,836	0	2,836	0	2,836	2,836	0
May	1,830	0	1,830	348	1,510	1,858	-28
Jun	1,192	0	1,192	382	828	1,210	-18
Jul	1,153	0	1,153	456	713	1,169	-16
Aug	924	0	924	372	553	925	-1
Sep	1,048	0	1,048	258	751	1,009	39
Oct	1,980	0	1,980	156	1,812	1,968	12
Nov	2,722	0	2,722	0	2,710	2,710	12
Dec	2,689	0	2,689	0	2,689	2,689	0
Annual	22,359	0	22,359	1,972	20,388	22,360	0

Table 166 Southwest Pond Water Balance for Year 16

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,105	0	2,105	0	2,105	2,105	0
Feb	1,605	0	1,605	0	1,605	1,605	0
Mar	2,224	0	2,224	0	2,224	2,224	0
Apr	2,846	0	2,846	0	2,846	2,846	0
May	1,792	0	1,792	348	1,472	1,820	-28
Jun	1,204	0	1,204	382	842	1,224	-20
Jul	1,200	0	1,200	456	757	1,213	-13
Aug	926	0	926	372	552	924	2
Sep	1,046	0	1,046	258	752	1,010	36
Oct	1,943	0	1,943	156	1,776	1,932	11
Nov	2,687	0	2,687	0	2,675	2,675	12
Dec	2,700	0	2,700	0	2,700	2,700	0
Annual	22,278	0	22,278	1,972	20,306	22,278	0

Table 167 Southwest Pond Water Balance for Year 17

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,103	0	2,103	0	2,103	2,103	0
Feb	1,560	0	1,560	0	1,560	1,560	0
Mar	2,204	0	2,204	0	2,204	2,204	0
Apr	2,892	0	2,892	0	2,892	2,892	0
May	1,789	0	1,789	348	1,471	1,819	-30
Jun	1,211	0	1,211	382	843	1,225	-14
Jul	1,184	0	1,184	456	745	1,200	-16
Aug	926	0	926	372	551	922	3
Sep	1,075	0	1,075	258	781	1,039	36
Oct	1,956	0	1,956	156	1,790	1,946	10
Nov	2,715	0	2,715	0	2,704	2,704	11
Dec	2,709	0	2,709	0	2,709	2,709	0
Annual	22,324	0	22,324	1,972	20,352	22,324	0

Table 168 Southwest Pond Water Balance for Year 18

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,143	0	2,143	0	2,143	2,143	0
Feb	1,529	0	1,529	0	1,529	1,529	0
Mar	2,189	0	2,189	0	2,189	2,189	0
Apr	2,912	0	2,912	0	2,912	2,912	0
May	1,786	0	1,786	348	1,467	1,815	-29
Jun	1,188	0	1,188	382	827	1,209	-21
Jul	1,168	0	1,168	456	725	1,181	-13
Aug	908	0	908	372	535	907	1
Sep	1,063	0	1,063	258	764	1,022	41
Oct	1,961	0	1,961	156	1,793	1,949	12
Nov	2,699	0	2,699	0	2,689	2,689	10
Dec	2,725	0	2,725	0	2,725	2,725	0
Annual	22,271	0	22,271	1,972	20,298	22,270	1

Table 169 Southwest Pond Water Balance for Year 19

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,124	0	2,124	0	2,124	2,124	0
Feb	1,674	0	1,674	0	1,674	1,674	0
Mar	2,179	0	2,179	0	2,179	2,179	0
Apr	2,827	0	2,827	0	2,827	2,827	0
May	1,826	0	1,826	348	1,503	1,851	-25
Jun	1,183	0	1,183	382	821	1,203	-20
Jul	1,168	0	1,168	456	729	1,185	-17
Aug	922	0	922	372	550	922	0
Sep	1,052	0	1,052	258	756	1,015	37
Oct	1,982	0	1,982	156	1,814	1,970	12
Nov	2,718	0	2,718	0	2,705	2,705	13
Dec	2,703	0	2,703	0	2,703	2,703	0
Annual	22,358	0	22,358	1,972	20,386	22,358	1

Table 170 Southwest Pond Water Balance for Year 20

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,110	0	2,110	0	2,110	2,110	0
Feb	1,587	0	1,587	0	1,587	1,587	0
Mar	2,210	0	2,210	0	2,210	2,210	0
Apr	2,845	0	2,845	0	2,845	2,845	0
May	1,782	0	1,782	348	1,463	1,811	-29
Jun	1,214	0	1,214	382	850	1,232	-18
Jul	1,177	0	1,177	456	736	1,192	-15
Aug	914	0	914	372	541	913	1
Sep	1,074	0	1,074	258	778	1,036	38
Oct	1,950	0	1,950	156	1,783	1,939	11
Nov	2,706	0	2,706	0	2,694	2,694	12
Dec	2,696	0	2,696	0	2,696	2,696	0
Annual	22,265	0	22,265	1,972	20,292	22,265	0

Table 171 Southwest Pond Water Balance for Year 21

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,148	0	2,148	0	2,148	2,148	0
Feb	1,570	0	1,570	0	1,570	1,570	0
Mar	2,210	0	2,210	0	2,210	2,210	0
Apr	2,855	0	2,855	0	2,855	2,855	0
May	1,796	0	1,796	348	1,475	1,823	-27
Jun	1,186	0	1,186	382	823	1,205	-19
Jul	1,195	0	1,195	456	755	1,211	-16
Aug	942	0	942	372	567	939	3
Sep	1,075	0	1,075	258	782	1,040	35
Oct	1,962	0	1,962	156	1,794	1,950	12
Nov	2,712	0	2,712	0	2,700	2,700	12
Dec	2,735	0	2,735	0	2,735	2,735	0
Annual	22,386	0	22,386	1,972	20,413	22,385	1

Table 172 Southwest Pond Water Balance for Year 22

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,119	0	2,119	0	2,119	2,119	0
Feb	1,534	0	1,534	0	1,534	1,534	0
Mar	2,206	0	2,206	0	2,206	2,206	0
Apr	2,912	0	2,912	0	2,912	2,912	0
May	1,784	0	1,784	348	1,468	1,816	-32
Jun	1,182	0	1,182	382	815	1,197	-15
Jul	1,186	0	1,186	456	745	1,201	-15
Aug	911	0	911	372	535	907	4
Sep	1,070	0	1,070	258	776	1,034	36
Oct	1,946	0	1,946	156	1,779	1,935	11
Nov	2,730	0	2,730	0	2,719	2,719	11
Dec	2,737	0	2,737	0	2,737	2,737	0
Annual	22,317	0	22,317	1,972	20,345	22,317	0

Table 173 Southwest Pond Water Balance for Year 23

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,091	0	2,091	0	2,091	2,091	0
Feb	1,689	0	1,689	0	1,689	1,689	0
Mar	2,173	0	2,173	0	2,173	2,173	0
Apr	2,830	0	2,830	0	2,830	2,830	0
May	1,831	0	1,831	348	1,508	1,856	-25
Jun	1,190	0	1,190	382	828	1,210	-20
Jul	1,171	0	1,171	456	732	1,188	-17
Aug	926	0	926	372	556	928	-2
Sep	1,055	0	1,055	258	757	1,016	39
Oct	1,971	0	1,971	156	1,804	1,960	11
Nov	2,704	0	2,704	0	2,692	2,692	12
Dec	2,729	0	2,729	0	2,729	2,729	0
Annual	22,360	0	22,360	1,972	20,389	22,361	-1

Table 174 Southwest Pond Water Balance for Year 24

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,131	0	2,131	0	2,131	2,131	0
Feb	1,593	0	1,593	0	1,593	1,593	0
Mar	2,218	0	2,218	0	2,218	2,218	0
Apr	2,893	0	2,893	0	2,893	2,893	0
May	1,802	0	1,802	348	1,481	1,829	-27
Jun	1,201	0	1,201	382	838	1,220	-19
Jul	1,161	0	1,161	456	721	1,177	-16
Aug	933	0	933	372	559	931	2
Sep	1,059	0	1,059	258	765	1,023	36
Oct	1,927	0	1,927	156	1,759	1,915	12
Nov	2,709	0	2,709	0	2,697	2,697	12
Dec	2,720	0	2,720	0	2,720	2,720	0
Annual	22,347	0	22,347	1,972	20,375	22,347	0

Table 175 Southwest Pond Water Balance for Year 25

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,133	0	2,133	0	2,133	2,133	0
Feb	1,564	0	1,564	0	1,564	1,564	0
Mar	2,239	0	2,239	0	2,239	2,239	0
Apr	2,882	0	2,882	0	2,882	2,882	0
May	1,817	0	1,817	348	1,496	1,844	-27
Jun	1,195	0	1,195	382	835	1,217	-22
Jul	1,190	0	1,190	456	747	1,203	-13
Aug	926	0	926	372	550	922	4
Sep	1,066	0	1,066	258	772	1,031	35
Oct	1,942	0	1,942	156	1,775	1,931	11
Nov	2,734	0	2,734	0	2,723	2,723	11
Dec	2,713	0	2,713	0	2,713	2,713	0
Annual	22,401	0	22,401	1,972	20,430	22,402	-1

Table 176 Southwest Pond Water Balance for Year 26

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,138	0	2,138	0	2,138	2,138	0
Feb	1,581	0	1,581	0	1,581	1,581	0
Mar	2,174	0	2,174	0	2,174	2,174	0
Apr	2,941	0	2,941	0	2,941	2,941	0
May	1,788	0	1,788	348	1,471	1,819	-31
Jun	1,186	0	1,186	382	820	1,202	-16
Jul	1,168	0	1,168	456	727	1,183	-15
Aug	918	0	918	372	543	915	3
Sep	1,077	0	1,077	258	783	1,042	35
Oct	1,926	0	1,926	156	1,758	1,914	12
Nov	2,699	0	2,699	0	2,688	2,688	11
Dec	2,706	0	2,706	0	2,706	2,706	0
Annual	22,302	0	22,302	1,972	20,330	22,302	0

Table 177 Southwest Pond Water Balance for Year 27

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,100	0	2,100	0	2,100	2,100	0
Feb	1,672	0	1,672	0	1,672	1,672	0
Mar	2,194	0	2,194	0	2,194	2,194	0
Apr	2,814	0	2,814	0	2,814	2,814	0
May	1,833	0	1,833	348	1,511	1,859	-26
Jun	1,223	0	1,223	382	859	1,241	-18
Jul	1,159	0	1,159	456	721	1,177	-18
Aug	950	0	950	372	576	948	2
Sep	1,032	0	1,032	258	739	998	34
Oct	1,960	0	1,960	156	1,791	1,947	13
Nov	2,696	0	2,696	0	2,684	2,684	12
Dec	2,681	0	2,681	0	2,681	2,681	0
Annual	22,314	0	22,314	1,972	20,342	22,314	-1

Table 178 Southwest Pond Water Balance for Year 28

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,122	0	2,122	0	2,122	2,122	0
Feb	1,596	0	1,596	0	1,596	1,596	0
Mar	2,203	0	2,203	0	2,203	2,203	0
Apr	2,884	0	2,884	0	2,884	2,884	0
May	1,792	0	1,792	348	1,471	1,819	-27
Jun	1,201	0	1,201	382	839	1,221	-20
Jul	1,171	0	1,171	456	731	1,187	-16
Aug	944	0	944	372	568	940	4
Sep	1,058	0	1,058	258	765	1,023	35
Oct	1,933	0	1,933	156	1,766	1,922	11
Nov	2,713	0	2,713	0	2,701	2,701	12
Dec	2,678	0	2,678	0	2,678	2,678	0
Annual	22,295	0	22,295	1,972	20,324	22,296	-1

Table 179 Southwest Pond Water Balance for Year 29

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,126	0	2,126	0	2,126	2,126	0
Feb	1,551	0	1,551	0	1,551	1,551	0
Mar	2,187	0	2,187	0	2,187	2,187	0
Apr	2,893	0	2,893	0	2,893	2,893	0
May	1,776	0	1,776	348	1,456	1,804	-28
Jun	1,203	0	1,203	382	839	1,221	-18
Jul	1,155	0	1,155	456	716	1,172	-17
Aug	928	0	928	372	552	924	4
Sep	1,075	0	1,075	258	782	1,041	34
Oct	1,957	0	1,957	156	1,789	1,945	12
Nov	2,717	0	2,717	0	2,705	2,705	12
Dec	2,693	0	2,693	0	2,693	2,693	0
Annual	22,261	0	22,261	1,972	20,289	22,262	-1

Table 180 Southwest Pond Water Balance for Year 30

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,117	0	2,117	0	2,117	2,117	0
Feb	1,583	0	1,583	0	1,583	1,583	0
Mar	2,205	0	2,205	0	2,205	2,205	0
Apr	2,955	0	2,955	0	2,955	2,955	0
May	1,786	0	1,786	348	1,467	1,815	-29
Jun	1,208	0	1,208	382	843	1,225	-17
Jul	1,183	0	1,183	456	741	1,197	-14
Aug	914	0	914	372	540	912	2
Sep	1,061	0	1,061	258	767	1,026	35
Oct	1,948	0	1,948	156	1,780	1,936	12
Nov	2,732	0	2,732	0	2,721	2,721	11
Dec	2,676	0	2,676	0	2,676	2,676	0
Annual	22,368	0	22,368	1,972	20,395	22,367	1

Table 181 Southwest Pond Water Balance for Year 31

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,118	0	2,118	0	2,118	2,118	0
Feb	1,678	0	1,678	0	1,678	1,678	0
Mar	2,220	0	2,220	0	2,220	2,220	0
Apr	2,836	0	2,836	0	2,836	2,836	0
May	1,826	0	1,826	348	1,503	1,851	-25
Jun	1,199	0	1,199	382	836	1,218	-19
Jul	1,156	0	1,156	456	720	1,176	-20
Aug	932	0	932	372	556	928	4
Sep	1,057	0	1,057	258	762	1,021	36
Oct	1,964	0	1,964	156	1,798	1,954	10
Nov	2,706	0	2,706	0	2,693	2,693	13
Dec	2,660	0	2,660	0	2,660	2,660	0
Annual	22,352	0	22,352	1,972	20,380	22,352	0

Table 182 Southwest Pond Water Balance for Year 32

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,113	0	2,113	0	2,113	2,113	0
Feb	1,619	0	1,619	0	1,619	1,619	0
Mar	2,183	0	2,183	0	2,183	2,183	0
Apr	2,883	0	2,883	0	2,883	2,883	0
May	1,838	0	1,838	348	1,516	1,864	-26
Jun	1,198	0	1,198	382	836	1,218	-20
Jul	1,158	0	1,158	456	719	1,175	-17
Aug	935	0	935	372	562	933	1
Sep	1,049	0	1,049	258	752	1,011	38
Oct	1,986	0	1,986	156	1,819	1,975	11
Nov	2,699	0	2,699	0	2,687	2,687	12
Dec	2,754	0	2,754	0	2,754	2,754	0
Annual	22,415	0	22,415	1,972	20,442	22,414	0

Table 183 Southwest Pond Water Balance for Year 33

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,105	0	2,105	0	2,105	2,105	0
Feb	1,577	0	1,577	0	1,577	1,577	0
Mar	2,222	0	2,222	0	2,222	2,222	0
Apr	2,859	0	2,859	0	2,859	2,859	0
May	1,785	0	1,785	348	1,465	1,813	-28
Jun	1,178	0	1,178	382	818	1,200	-22
Jul	1,163	0	1,163	456	720	1,176	-13
Aug	933	0	933	372	559	931	3
Sep	1,079	0	1,079	258	784	1,043	36
Oct	1,954	0	1,954	156	1,787	1,943	11
Nov	2,726	0	2,726	0	2,715	2,715	11
Dec	2,702	0	2,702	0	2,702	2,702	0
Annual	22,283	0	22,283	1,972	20,313	22,285	-1

Table 184 Southwest Pond Water Balance for Year 34

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,129	0	2,129	0	2,129	2,129	0
Feb	1,554	0	1,554	0	1,554	1,554	0
Mar	2,203	0	2,203	0	2,203	2,203	0
Apr	2,903	0	2,903	0	2,903	2,903	0
May	1,774	0	1,774	348	1,456	1,804	-30
Jun	1,192	0	1,192	382	827	1,209	-17
Jul	1,173	0	1,173	456	732	1,188	-15
Aug	915	0	915	372	539	911	4
Sep	1,070	0	1,070	258	776	1,035	36
Oct	1,962	0	1,962	156	1,795	1,951	11
Nov	2,698	0	2,698	0	2,687	2,687	11
Dec	2,689	0	2,689	0	2,689	2,689	0
Annual	22,262	0	22,262	1,972	20,290	22,262	0

Table 185 Southwest Pond Water Balance for Year 35

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,136	0	2,136	0	2,136	2,136	0
Feb	1,647	0	1,647	0	1,647	1,647	0
Mar	2,204	0	2,204	0	2,204	2,204	0
Apr	2,828	0	2,828	0	2,828	2,828	0
May	1,828	0	1,828	348	1,505	1,853	-25
Jun	1,190	0	1,190	382	827	1,209	-19
Jul	1,163	0	1,163	456	724	1,180	-17
Aug	926	0	926	372	555	927	-1
Sep	1,055	0	1,055	258	758	1,016	39
Oct	1,997	0	1,997	156	1,830	1,986	11
Nov	2,676	0	2,676	0	2,664	2,664	12
Dec	2,714	0	2,714	0	2,714	2,714	0
Annual	22,364	0	22,364	1,972	20,392	22,364	0

Table 186 Southwest Pond Water Balance for Year 36

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,109	0	2,109	0	2,109	2,109	0
Feb	1,584	0	1,584	0	1,584	1,584	0
Mar	2,247	0	2,247	0	2,247	2,247	0
Apr	2,844	0	2,844	0	2,844	2,844	0
May	1,838	0	1,838	348	1,516	1,864	-26
Jun	1,201	0	1,201	382	837	1,219	-18
Jul	1,163	0	1,163	456	725	1,181	-18
Aug	949	0	949	372	574	946	3
Sep	1,052	0	1,052	258	757	1,015	37
Oct	1,935	0	1,935	156	1,768	1,924	11
Nov	2,727	0	2,727	0	2,715	2,715	12
Dec	2,702	0	2,702	0	2,702	2,702	0
Annual	22,351	0	22,351	1,972	20,378	22,350	1

Table 187 Southwest Pond Water Balance for Year 37

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,144	0	2,144	0	2,144	2,144	0
Feb	1,574	0	1,574	0	1,574	1,574	0
Mar	2,184	0	2,184	0	2,184	2,184	0
Apr	2,848	0	2,848	0	2,848	2,848	0
May	1,804	0	1,804	348	1,483	1,831	-27
Jun	1,204	0	1,204	382	840	1,222	-18
Jul	1,175	0	1,175	456	736	1,192	-17
Aug	923	0	923	372	547	919	4
Sep	1,058	0	1,058	258	764	1,022	36
Oct	1,934	0	1,934	156	1,767	1,923	11
Nov	2,705	0	2,705	0	2,693	2,693	12
Dec	2,726	0	2,726	0	2,726	2,726	0
Annual	22,279	0	22,279	1,972	20,306	22,278	1

Table 188 Southwest Pond Water Balance for Year 38

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,115	0	2,115	0	2,115	2,115	0
Feb	1,586	0	1,586	0	1,586	1,586	0
Mar	2,179	0	2,179	0	2,179	2,179	0
Apr	2,913	0	2,913	0	2,913	2,913	0
May	1,802	0	1,802	348	1,484	1,832	-30
Jun	1,182	0	1,182	382	817	1,199	-17
Jul	1,188	0	1,188	456	747	1,203	-15
Aug	915	0	915	372	540	912	3
Sep	1,134	0	1,134	258	839	1,098	36
Oct	1,946	0	1,946	156	1,779	1,935	11
Nov	2,699	0	2,699	0	2,688	2,688	11
Dec	2,717	0	2,717	0	2,717	2,717	0
Annual	22,376	0	22,376	1,972	20,404	22,376	0

Table 189 Southwest Pond Water Balance for Year 39

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,148	0	2,148	0	2,148	2,148	0
Feb	1,654	0	1,654	0	1,654	1,654	0
Mar	2,198	0	2,198	0	2,198	2,198	0
Apr	2,845	0	2,845	0	2,845	2,845	0
May	1,833	0	1,833	348	1,511	1,859	-26
Jun	1,190	0	1,190	382	827	1,209	-19
Jul	1,147	0	1,147	456	709	1,165	-18
Aug	936	0	936	372	561	933	3
Sep	1,051	0	1,051	258	756	1,014	37
Oct	1,934	0	1,934	156	1,768	1,924	10
Nov	2,744	0	2,744	0	2,732	2,732	12
Dec	2,681	0	2,681	0	2,681	2,681	0
Annual	22,361	0	22,361	1,972	20,390	22,363	-2

Table 190 Southwest Pond Water Balance for Year 40

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,126	0	2,126	0	2,126	2,126	0
Feb	1,625	0	1,625	0	1,625	1,625	0
Mar	2,199	0	2,199	0	2,199	2,199	0
Apr	2,860	0	2,860	0	2,860	2,860	0
May	1,831	0	1,831	348	1,509	1,857	-26
Jun	1,191	0	1,191	382	828	1,210	-19
Jul	1,193	0	1,193	456	758	1,214	-21
Aug	932	0	932	372	554	926	7
Sep	1,060	0	1,060	258	767	1,026	35
Oct	1,952	0	1,952	156	1,785	1,941	11
Nov	2,699	0	2,699	0	2,687	2,687	12
Dec	2,690	0	2,690	0	2,690	2,690	0
Annual	22,358	0	22,358	1,972	20,388	22,360	-2

Table 191 Southwest Pond Water Balance for Year 41

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,128	0	2,128	0	2,128	2,128	0
Feb	1,606	0	1,606	0	1,606	1,606	0
Mar	2,229	0	2,229	0	2,229	2,229	0
Apr	2,873	0	2,873	0	2,873	2,873	0
May	1,775	0	1,775	348	1,454	1,802	-27
Jun	1,192	0	1,192	382	828	1,210	-18
Jul	1,187	0	1,187	456	749	1,205	-18
Aug	929	0	929	372	552	924	4
Sep	1,052	0	1,052	258	758	1,016	36
Oct	1,957	0	1,957	156	1,789	1,945	12
Nov	2,701	0	2,701	0	2,689	2,689	12
Dec	2,704	0	2,704	0	2,704	2,704	0
Annual	22,333	0	22,333	1,972	20,359	22,331	1

Table 192 Southwest Pond Water Balance for Year 42

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,146	0	2,146	0	2,146	2,146	0
Feb	1,551	0	1,551	0	1,551	1,551	0
Mar	2,186	0	2,186	0	2,186	2,186	0
Apr	2,906	0	2,906	0	2,906	2,906	0
May	1,792	0	1,792	348	1,473	1,821	-29
Jun	1,194	0	1,194	382	827	1,209	-15
Jul	1,185	0	1,185	456	745	1,201	-16
Aug	918	0	918	372	544	916	2
Sep	1,066	0	1,066	258	772	1,031	35
Oct	1,996	0	1,996	156	1,828	1,984	12
Nov	2,726	0	2,726	0	2,716	2,716	10
Dec	2,709	0	2,709	0	2,709	2,709	0
Annual	22,375	0	22,375	1,972	20,403	22,376	-1

Table 193 Southwest Pond Water Balance for Year 43

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,123	0	2,123	0	2,123	2,123	0
Feb	1,648	0	1,648	0	1,648	1,648	0
Mar	2,207	0	2,207	0	2,207	2,207	0
Apr	2,870	0	2,870	0	2,870	2,870	0
May	1,808	0	1,808	348	1,487	1,835	-27
Jun	1,184	0	1,184	382	819	1,201	-17
Jul	1,159	0	1,159	456	723	1,179	-20
Aug	928	0	928	372	554	926	2
Sep	1,049	0	1,049	258	752	1,010	39
Oct	1,948	0	1,948	156	1,781	1,937	11
Nov	2,701	0	2,701	0	2,688	2,688	13
Dec	2,667	0	2,667	0	2,667	2,667	0
Annual	22,292	0	22,292	1,972	20,319	22,291	1

Table 194 Southwest Pond Water Balance for Year 44

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,113	0	2,113	0	2,113	2,113	0
Feb	1,626	0	1,626	0	1,626	1,626	0
Mar	2,246	0	2,246	0	2,246	2,246	0
Apr	2,884	0	2,884	0	2,884	2,884	0
May	1,803	0	1,803	348	1,484	1,832	-29
Jun	1,192	0	1,192	382	826	1,208	-16
Jul	1,175	0	1,175	456	738	1,194	-19
Aug	939	0	939	372	563	935	5
Sep	1,050	0	1,050	258	756	1,015	36
Oct	1,970	0	1,970	156	1,803	1,959	11
Nov	2,751	0	2,751	0	2,739	2,739	12
Dec	2,668	0	2,668	0	2,668	2,668	0
Annual	22,417	0	22,417	1,972	20,446	22,418	-1

Table 195 Southwest Pond Water Balance for Year 45

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,112	0	2,112	0	2,112	2,112	0
Feb	1,590	0	1,590	0	1,590	1,590	0
Mar	2,211	0	2,211	0	2,211	2,211	0
Apr	2,919	0	2,919	0	2,919	2,919	0
May	1,790	0	1,790	348	1,470	1,818	-28
Jun	1,196	0	1,196	382	834	1,216	-20
Jul	1,157	0	1,157	456	720	1,176	-19
Aug	941	0	941	372	562	934	7
Sep	1,060	0	1,060	258	766	1,024	36
Oct	1,946	0	1,946	156	1,779	1,935	11
Nov	2,693	0	2,693	0	2,681	2,681	12
Dec	2,715	0	2,715	0	2,715	2,715	0
Annual	22,330	0	22,330	1,972	20,358	22,330	0

Table 196 Southwest Pond Water Balance for Year 46

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,081	0	2,081	0	2,081	2,081	0
Feb	1,545	0	1,545	0	1,545	1,545	0
Mar	2,176	0	2,176	0	2,176	2,176	0
Apr	2,919	0	2,919	0	2,919	2,919	0
May	1,774	0	1,774	348	1,455	1,803	-29
Jun	1,190	0	1,190	382	825	1,207	-17
Jul	1,163	0	1,163	456	724	1,180	-17
Aug	922	0	922	372	545	917	4
Sep	1,072	0	1,072	258	778	1,037	36
Oct	1,940	0	1,940	156	1,774	1,930	10
Nov	2,723	0	2,723	0	2,712	2,712	11
Dec	2,702	0	2,702	0	2,702	2,702	0
Annual	22,207	0	22,207	1,972	20,236	22,208	-2

Table 197 Southwest Pond Water Balance for Year 47

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,122	0	2,122	0	2,122	2,122	0
Feb	1,647	0	1,647	0	1,647	1,647	0
Mar	2,212	0	2,212	0	2,212	2,212	0
Apr	2,809	0	2,809	0	2,809	2,809	0
May	1,840	0	1,840	348	1,518	1,866	-26
Jun	1,186	0	1,186	382	823	1,205	-19
Jul	1,153	0	1,153	456	714	1,170	-17
Aug	933	0	933	372	559	931	2
Sep	1,056	0	1,056	258	760	1,019	37
Oct	1,998	0	1,998	156	1,832	1,988	10
Nov	2,703	0	2,703	0	2,691	2,691	12
Dec	2,693	0	2,693	0	2,693	2,693	0
Annual	22,352	0	22,352	1,972	20,381	22,353	-1

Table 198 Southwest Pond Water Balance for Year 48

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,107	0	2,107	0	2,107	2,107	0
Feb	1,633	0	1,633	0	1,633	1,633	0
Mar	2,195	0	2,195	0	2,195	2,195	0
Apr	2,827	0	2,827	0	2,827	2,827	0
May	1,799	0	1,799	348	1,478	1,826	-27
Jun	1,199	0	1,199	382	836	1,218	-19
Jul	1,176	0	1,176	456	740	1,196	-20
Aug	945	0	945	372	566	938	7
Sep	1,037	0	1,037	258	745	1,003	34
Oct	1,976	0	1,976	156	1,808	1,964	12
Nov	2,750	0	2,750	0	2,738	2,738	12
Dec	2,700	0	2,700	0	2,700	2,700	0
Annual	22,344	0	22,344	1,972	20,373	22,345	-1

Table 199 Southwest Pond Water Balance for Year 49

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,143	0	2,143	0	2,143	2,143	0
Feb	1,557	0	1,557	0	1,557	1,557	0
Mar	2,189	0	2,189	0	2,189	2,189	0
Apr	2,917	0	2,917	0	2,917	2,917	0
May	1,837	0	1,837	348	1,517	1,865	-28
Jun	1,201	0	1,201	382	836	1,218	-17
Jul	1,189	0	1,189	456	754	1,209	-20
Aug	922	0	922	372	544	916	6
Sep	1,046	0	1,046	258	753	1,011	35
Oct	1,918	0	1,918	156	1,749	1,905	13
Nov	2,733	0	2,733	0	2,721	2,721	12
Dec	2,686	0	2,686	0	2,686	2,686	0
Annual	22,338	0	22,338	1,972	20,366	22,338	0

Table 200 Southwest Pond Water Balance for Year 50

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	2,112	0	2,112	0	2,112	2,112	0
Feb	1,560	0	1,560	0	1,560	1,560	0
Mar	2,189	0	2,189	0	2,189	2,189	0
Apr	2,880	0	2,880	0	2,880	2,880	0
May	1,776	0	1,776	348	1,456	1,804	-28
Jun	1,184	0	1,184	382	820	1,202	-18
Jul	1,155	0	1,155	456	716	1,172	-17
Aug	923	0	923	372	547	919	4
Sep	1,068	0	1,068	258	774	1,032	36
Oct	1,932	0	1,932	156	1,763	1,919	13
Nov	2,740	0	2,740	0	2,729	2,729	11
Dec	2,684	0	2,684	0	2,684	2,684	0
Annual	22,203	0	22,203	1,972	20,230	22,202	1

Table 201 **Southeast Pond Water Balance for Year 1**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	4,393	26,987	31,380	0	31,380	31,380	0
Feb	3,236	19,879	23,115	0	23,115	23,115	0
Mar	4,635	29,978	34,613	0	34,613	34,613	0
Apr	6,194	40,329	46,523	0	46,523	46,523	0
May	4,156	29,414	33,570	421	33,172	33,593	-23
Jun	3,225	26,242	29,467	463	29,010	29,473	-6
Jul	3,348	28,429	31,777	552	31,223	31,775	2
Aug	2,981	26,955	29,936	450	29,484	29,934	2
Sep	3,225	28,119	31,344	313	31,022	31,335	9
Oct	4,767	35,808	40,574	189	40,380	40,569	5
Nov	6,068	41,156	47,224	0	47,214	47,214	10
Dec	5,517	34,105	39,623	0	39,623	39,623	0
Annual	51,745	367,401	419,146	2,387	416,759	419,146	0

Table 202 **Southeast Pond Water Balance for Year 2**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	4,391	26,975	31,366	0	31,366	31,366	0
Feb	3,179	19,529	22,708	0	22,708	22,708	0
Mar	4,630	29,949	34,579	0	34,579	34,579	0
Apr	6,253	40,715	46,968	0	46,968	46,968	0
May	4,152	29,386	33,538	421	33,140	33,561	-23
Jun	3,245	26,408	29,653	463	29,202	29,665	-12
Jul	3,329	28,270	31,599	552	31,039	31,591	8
Aug	2,998	27,103	30,100	450	29,651	30,101	-1
Sep	3,193	27,841	31,034	313	30,711	31,024	10
Oct	4,788	35,965	40,752	189	40,558	40,747	5
Nov	6,079	41,228	47,307	0	47,297	47,297	10
Dec	5,540	34,248	39,788	0	39,788	39,788	0
Annual	51,777	367,617	419,392	2,387	417,007	419,394	-2

Table 203 **Southeast Pond Water Balance for Year 3**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	4,315	26,508	30,823	0	30,823	30,823	0
Feb	3,449	21,189	24,639	0	24,639	24,639	0
Mar	4,616	29,858	34,474	0	34,474	34,474	0
Apr	6,102	39,731	45,833	0	45,833	45,833	0
May	4,133	29,246	33,379	421	32,978	33,399	-20
Jun	3,221	26,213	29,434	463	28,982	29,445	-11
Jul	3,338	28,345	31,683	552	31,134	31,686	-3
Aug	2,949	26,661	29,610	450	29,154	29,604	6
Sep	3,144	27,411	30,555	313	30,232	30,545	10
Oct	4,842	36,374	41,217	189	41,023	41,212	5
Nov	5,959	40,414	46,373	0	46,361	46,361	12
Dec	5,519	34,118	39,638	0	39,638	39,638	0
Annual	51,587	366,068	417,658	2,387	415,271	417,658	0

Table 204 **Southeast Pond Water Balance for Year 4**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	4,357	26,764	31,121	0	31,121	31,121	0
Feb	3,250	19,963	23,213	0	23,213	23,213	0
Mar	4,646	30,047	34,693	0	34,693	34,693	0
Apr	6,155	40,073	46,228	0	46,228	46,228	0
May	4,214	29,821	34,035	421	33,634	34,055	-20
Jun	3,202	26,060	29,263	463	28,810	29,273	-10
Jul	3,369	28,604	31,973	552	31,420	31,972	1
Aug	2,935	26,532	29,466	450	29,013	29,463	3
Sep	3,163	27,572	30,735	313	30,413	30,726	9
Oct	4,846	36,399	41,245	189	41,051	41,240	5
Nov	5,995	40,660	46,655	0	46,643	46,643	12
Dec	5,608	34,663	40,271	0	40,271	40,271	0
Annual	51,740	367,158	418,898	2,387	416,510	418,897	1

Table 205 **Southeast Pond Water Balance for Year 5**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	4,361	26,786	31,147	0	31,147	31,147	0
Feb	3,196	19,634	22,830	0	22,830	22,830	0
Mar	4,631	29,955	34,587	0	34,587	34,587	0
Apr	6,155	40,074	46,229	0	46,229	46,229	0
May	4,097	28,991	33,088	421	32,689	33,110	-22
Jun	3,220	26,201	29,421	463	28,965	29,428	-7
Jul	3,398	28,857	32,255	552	31,701	32,253	2
Aug	2,953	26,696	29,649	450	29,197	29,647	2
Sep	3,240	28,245	31,485	313	31,163	31,476	9
Oct	4,854	36,461	41,314	189	41,120	41,309	5
Nov	6,077	41,213	47,290	0	47,280	47,280	10
Dec	5,582	34,504	40,086	0	40,086	40,086	0
Annual	51,764	367,617	419,381	2,387	416,994	419,381	0

Table 206 **Southeast Pond Water Balance for Year 6**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,968	4,308	26,276	0	26,276	26,276	0
Feb	16,257	2,469	18,726	0	18,726	18,726	0
Mar	21,794	3,682	25,477	0	25,477	25,477	0
Apr	29,903	5,052	34,956	0	34,956	34,956	0
May	17,660	3,673	21,334	421	20,935	21,356	-22
Jun	10,558	3,246	13,804	463	13,353	13,816	-12
Jul	9,978	3,554	13,532	552	12,971	13,523	9
Aug	7,305	3,412	10,718	450	10,269	10,719	-1
Sep	8,735	3,530	12,266	313	11,941	12,254	12
Oct	17,920	4,447	22,367	189	22,174	22,363	4
Nov	27,650	5,156	32,806	0	32,796	32,796	10
Dec	27,586	4,261	31,846	0	31,846	31,846	0
Annual	217,314	46,790	264,108	2,387	261,720	264,107	1

Table 207 **Southeast Pond Water Balance for Year 7**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,109	3,357	25,466	0	25,466	25,466	0
Feb	17,079	2,593	19,672	0	19,672	19,672	0
Mar	22,207	3,752	25,959	0	25,959	25,959	0
Apr	29,609	5,003	34,612	0	34,612	34,612	0
May	17,684	3,678	21,362	421	20,961	21,382	-20
Jun	10,617	3,265	13,882	463	13,430	13,893	-11
Jul	10,255	3,653	13,908	552	13,359	13,911	-3
Aug	7,313	3,416	10,729	450	10,272	10,722	7
Sep	8,490	3,431	11,921	313	11,599	11,912	9
Oct	18,475	4,585	23,060	189	22,865	23,054	6
Nov	26,896	5,015	31,911	0	31,899	31,899	12
Dec	28,219	4,359	32,578	0	32,578	32,578	0
Annual	218,953	46,107	265,060	2,387	262,672	265,059	1

Table 208 **Southeast Pond Water Balance for Year 8**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,705	3,296	25,001	0	25,001	25,001	0
Feb	16,587	2,519	19,106	0	19,106	19,106	0
Mar	22,222	3,754	25,977	0	25,977	25,977	0
Apr	29,354	4,959	34,313	0	34,313	34,313	0
May	17,497	3,639	21,136	421	20,736	21,157	-21
Jun	10,699	3,290	13,988	463	13,536	13,999	-11
Jul	10,058	3,582	13,640	552	13,089	13,641	-1
Aug	7,252	3,387	10,639	450	10,184	10,634	5
Sep	8,448	3,414	11,863	313	11,540	11,853	10
Oct	18,169	4,509	22,678	189	22,483	22,672	6
Nov	27,363	5,102	32,465	0	32,454	32,454	11
Dec	27,698	4,278	31,977	0	31,977	31,977	0
Annual	217,052	45,729	262,783	2,387	260,396	262,783	0

Table 209 **Southeast Pond Water Balance for Year 9**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,866	3,320	25,187	0	25,187	25,187	0
Feb	16,077	2,441	18,519	0	18,519	18,519	0
Mar	22,207	3,752	25,959	0	25,959	25,959	0
Apr	29,143	4,924	34,066	0	34,066	34,066	0
May	17,639	3,669	21,307	421	20,910	21,331	-24
Jun	10,783	3,316	14,099	463	13,640	14,103	-4
Jul	10,027	3,571	13,599	552	13,046	13,598	1
Aug	7,049	3,292	10,341	450	9,888	10,338	3
Sep	8,629	3,487	12,117	313	11,795	12,108	9
Oct	18,320	4,546	22,865	189	22,671	22,860	5
Nov	27,172	5,066	32,238	0	32,228	32,228	10
Dec	28,047	4,332	32,379	0	32,379	32,379	0
Annual	216,959	45,716	262,676	2,387	260,288	262,675	1

Table 210 **Southeast Pond Water Balance for Year 10**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,034	3,346	25,380	0	25,380	25,380	0
Feb	15,851	2,407	18,259	0	18,259	18,259	0
Mar	21,970	3,712	25,682	0	25,682	25,682	0
Apr	29,793	5,034	34,827	0	34,827	34,827	0
May	18,332	3,813	22,145	421	21,747	22,168	-23
Jun	10,590	3,256	13,847	463	13,394	13,857	-10
Jul	9,913	3,531	13,444	552	12,884	13,436	8
Aug	7,238	3,381	10,619	450	10,170	10,620	-1
Sep	8,699	3,516	12,215	313	11,889	12,202	13
Oct	18,273	4,534	22,808	189	22,614	22,803	5
Nov	27,352	5,100	32,452	0	32,442	32,442	10
Dec	27,930	4,314	32,244	0	32,244	32,244	0
Annual	217,975	45,944	263,922	2,387	261,532	263,919	3

Table 211 **Southeast Pond Water Balance for Year 11**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,921	3,329	25,250	0	25,250	25,250	0
Feb	17,235	2,617	19,852	0	19,852	19,852	0
Mar	22,237	3,757	25,994	0	25,994	25,994	0
Apr	29,141	4,923	34,065	0	34,065	34,065	0
May	17,768	3,696	21,464	421	21,061	21,482	-18
Jun	10,693	3,288	13,980	463	13,530	13,993	-13
Jul	9,933	3,538	13,470	552	12,923	13,475	-5
Aug	7,415	3,463	10,878	450	10,420	10,870	8
Sep	8,372	3,383	11,755	313	11,433	11,746	9
Oct	18,252	4,529	22,781	189	22,587	22,776	5
Nov	27,661	5,157	32,818	0	32,807	32,807	11
Dec	27,837	4,300	32,137	0	32,137	32,137	0
Annual	218,465	45,980	264,444	2,387	262,059	264,446	-2

Table 212 **Southeast Pond Water Balance for Year 12**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,048	3,348	25,396	0	25,396	25,396	0
Feb	16,397	2,490	18,887	0	18,887	18,887	0
Mar	22,212	3,753	25,965	0	25,965	25,965	0
Apr	29,546	4,992	34,538	0	34,538	34,538	0
May	17,490	3,638	21,128	421	20,731	21,152	-24
Jun	10,681	3,284	13,965	463	13,512	13,975	-10
Jul	10,049	3,579	13,628	552	13,074	13,626	2
Aug	7,134	3,332	10,466	450	10,013	10,463	3
Sep	8,552	3,456	12,009	313	11,687	12,000	9
Oct	18,183	4,512	22,695	189	22,500	22,689	6
Nov	27,945	5,210	33,155	0	33,143	33,143	12
Dec	27,878	4,306	32,184	0	32,184	32,184	0
Annual	218,115	45,900	264,016	2,387	261,630	264,017	-1

Table 213 **Southeast Pond Water Balance for Year 13**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,577	3,276	24,853	0	24,853	24,853	0
Feb	16,330	2,480	18,810	0	18,810	18,810	0
Mar	22,021	3,720	25,741	0	25,741	25,741	0
Apr	29,265	4,944	34,210	0	34,210	34,210	0
May	17,603	3,661	21,264	421	20,868	21,289	-25
Jun	10,849	3,336	14,185	463	13,727	14,190	-5
Jul	10,013	3,566	13,579	552	13,030	13,582	-3
Aug	7,202	3,364	10,565	450	10,108	10,558	7
Sep	8,652	3,497	12,148	313	11,828	12,141	7
Oct	18,214	4,520	22,733	189	22,539	22,728	5
Nov	27,318	5,094	32,412	0	32,400	32,400	12
Dec	27,761	4,288	32,049	0	32,049	32,049	0
Annual	216,805	45,746	262,549	2,387	260,163	262,550	-1

Table 214 **Southeast Pond Water Balance for Year 14**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,847	3,317	25,165	0	25,165	25,165	0
Feb	16,354	2,483	18,837	0	18,837	18,837	0
Mar	22,229	3,756	25,985	0	25,985	25,985	0
Apr	29,930	5,057	34,987	0	34,987	34,987	0
May	17,448	3,629	21,077	421	20,679	21,100	-23
Jun	10,578	3,253	13,831	463	13,378	13,841	-10
Jul	9,994	3,560	13,554	552	12,996	13,548	6
Aug	7,210	3,367	10,577	450	10,128	10,578	-1
Sep	8,626	3,486	12,112	313	11,786	12,099	13
Oct	18,014	4,470	22,484	189	22,291	22,480	4
Nov	27,536	5,134	32,670	0	32,660	32,660	10
Dec	27,678	4,275	31,953	0	31,953	31,953	0
Annual	217,444	45,787	263,232	2,387	260,845	263,232	0

Table 215 **Southeast Pond Water Balance for Year 15**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,038	3,346	25,384	0	25,384	25,384	0
Feb	17,296	2,626	19,922	0	19,922	19,922	0
Mar	22,254	3,760	26,014	0	26,014	26,014	0
Apr	29,132	4,922	34,054	0	34,054	34,054	0
May	18,005	3,745	21,750	421	21,348	21,769	-19
Jun	10,636	3,270	13,906	463	13,454	13,917	-11
Jul	9,867	3,514	13,381	552	12,833	13,385	-4
Aug	7,143	3,336	10,479	450	10,022	10,472	7
Sep	8,464	3,421	11,885	313	11,562	11,875	10
Oct	18,543	4,601	23,144	189	22,949	23,138	6
Nov	27,418	5,112	32,531	0	32,519	32,519	12
Dec	27,749	4,286	32,035	0	32,035	32,035	0
Annual	218,545	45,939	264,485	2,387	262,096	264,483	2

Table 216 **Southeast Pond Water Balance for Year 16**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,849	3,318	25,166	0	25,166	25,166	0
Feb	16,651	2,528	19,179	0	19,179	19,179	0
Mar	22,563	3,812	26,375	0	26,375	26,375	0
Apr	29,238	4,940	34,178	0	34,178	34,178	0
May	17,630	3,667	21,297	421	20,896	21,317	-20
Jun	10,742	3,303	14,045	463	13,593	14,056	-11
Jul	10,265	3,656	13,921	552	13,367	13,919	2
Aug	7,154	3,341	10,495	450	10,042	10,492	3
Sep	8,454	3,417	11,871	313	11,548	11,861	10
Oct	18,202	4,517	22,719	189	22,524	22,713	6
Nov	27,068	5,047	32,115	0	32,104	32,104	11
Dec	27,867	4,304	32,171	0	32,171	32,171	0
Annual	217,683	45,850	263,532	2,387	261,143	263,530	2

Table 217 **Southeast Pond Water Balance for Year 17**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,826	3,314	25,140	0	25,140	25,140	0
Feb	16,193	2,459	18,652	0	18,652	18,652	0
Mar	22,352	3,776	26,128	0	26,128	26,128	0
Apr	29,706	5,019	34,725	0	34,725	34,725	0
May	17,600	3,661	21,261	421	20,864	21,285	-24
Jun	10,799	3,321	14,120	463	13,662	14,125	-5
Jul	10,128	3,607	13,736	552	13,183	13,735	1
Aug	7,153	3,341	10,494	450	10,040	10,490	4
Sep	8,687	3,511	12,198	313	11,875	12,188	10
Oct	18,321	4,546	22,868	189	22,674	22,863	5
Nov	27,350	5,100	32,450	0	32,439	32,439	11
Dec	27,960	4,319	32,279	0	32,279	32,279	0
Annual	218,075	45,974	264,051	2,387	261,661	264,048	3

Table 218 **Southeast Pond Water Balance for Year 18**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,240	3,377	25,617	0	25,617	25,617	0
Feb	15,864	2,409	18,273	0	18,273	18,273	0
Mar	22,207	3,752	25,959	0	25,959	25,959	0
Apr	29,914	5,054	34,968	0	34,968	34,968	0
May	17,569	3,654	21,223	421	20,825	21,246	-23
Jun	10,597	3,258	13,855	463	13,404	13,867	-12
Jul	9,993	3,559	13,552	552	12,994	13,546	6
Aug	7,015	3,277	10,292	450	9,842	10,292	0
Sep	8,590	3,472	12,062	313	11,736	12,049	13
Oct	18,368	4,558	22,926	189	22,733	22,922	4
Nov	27,192	5,070	32,262	0	32,252	32,252	10
Dec	28,123	4,344	32,467	0	32,467	32,467	0
Annual	217,672	45,784	263,456	2,387	261,070	263,457	-1

Table 219 **Southeast Pond Water Balance for Year 19**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,043	3,347	25,390	0	25,390	25,390	0
Feb	17,375	2,638	20,014	0	20,014	20,014	0
Mar	22,099	3,734	25,833	0	25,833	25,833	0
Apr	29,038	4,906	33,944	0	33,944	33,944	0
May	17,969	3,738	21,707	421	21,302	21,723	-16
Jun	10,548	3,243	13,791	463	13,342	13,805	-14
Jul	9,993	3,559	13,552	552	13,005	13,557	-5
Aug	7,127	3,329	10,455	450	9,999	10,449	6
Sep	8,502	3,436	11,938	313	11,616	11,929	9
Oct	18,560	4,606	23,166	189	22,971	23,160	6
Nov	27,375	5,104	32,479	0	32,467	32,467	12
Dec	27,900	4,309	32,210	0	32,210	32,210	0
Annual	218,529	45,949	264,479	2,387	262,093	264,480	-1

Table 220 **Southeast Pond Water Balance for Year 20**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,897	3,325	25,222	0	25,222	25,222	0
Feb	16,470	2,501	18,971	0	18,971	18,971	0
Mar	22,421	3,788	26,209	0	26,209	26,209	0
Apr	29,227	4,938	34,165	0	34,165	34,165	0
May	17,532	3,647	21,178	421	20,778	21,199	-21
Jun	10,825	3,329	14,154	463	13,702	14,165	-11
Jul	10,070	3,586	13,656	552	13,103	13,655	1
Aug	7,061	3,298	10,359	450	9,905	10,355	4
Sep	8,680	3,508	12,188	313	11,866	12,179	9
Oct	18,264	4,532	22,796	189	22,602	22,791	5
Nov	27,261	5,083	32,344	0	32,333	32,333	11
Dec	27,822	4,297	32,120	0	32,120	32,120	0
Annual	217,530	45,832	263,362	2,387	260,976	263,363	-1

Table 221 **Southeast Pond Water Balance for Year 21**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,288	3,384	25,673	0	25,673	25,673	0
Feb	16,294	2,474	18,768	0	18,768	18,768	0
Mar	22,420	3,788	26,208	0	26,208	26,208	0
Apr	29,327	4,955	34,282	0	34,282	34,282	0
May	17,667	3,675	21,341	421	20,942	21,363	-22
Jun	10,581	3,254	13,835	463	13,381	13,844	-9
Jul	10,226	3,642	13,868	552	13,313	13,865	3
Aug	7,278	3,399	10,678	450	10,225	10,675	3
Sep	8,689	3,512	12,200	313	11,879	12,192	8
Oct	18,377	4,560	22,937	189	22,743	22,932	5
Nov	27,314	5,093	32,407	0	32,396	32,396	11
Dec	28,229	4,360	32,589	0	32,589	32,589	0
Annual	218,690	46,096	264,786	2,387	262,399	264,786	0

Table 222 **Southeast Pond Water Balance for Year 22**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,990	3,339	25,329	0	25,329	25,329	0
Feb	15,918	2,417	18,335	0	18,335	18,335	0
Mar	22,380	3,781	26,161	0	26,161	26,161	0
Apr	29,914	5,054	34,968	0	34,968	34,968	0
May	17,557	3,652	21,209	421	20,813	21,234	-25
Jun	10,539	3,241	13,780	463	13,323	13,786	-6
Jul	10,146	3,614	13,759	552	13,203	13,755	4
Aug	7,040	3,288	10,328	450	9,877	10,327	1
Sep	8,642	3,493	12,135	313	11,812	12,125	10
Oct	18,230	4,524	22,754	189	22,560	22,749	5
Nov	27,495	5,127	32,621	0	32,611	32,611	10
Dec	28,249	4,363	32,612	0	32,612	32,612	0
Annual	218,100	45,893	263,991	2,387	261,604	263,991	0

Table 223 **Southeast Pond Water Balance for Year 23**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,704	3,296	25,000	0	25,000	25,000	0
Feb	17,524	2,661	20,185	0	20,185	20,185	0
Mar	22,037	3,723	25,760	0	25,760	25,760	0
Apr	29,064	4,910	33,975	0	33,975	33,975	0
May	18,014	3,747	21,761	421	21,356	21,777	-16
Jun	10,617	3,265	13,882	463	13,432	13,895	-13
Jul	10,023	3,570	13,592	552	13,046	13,598	-6
Aug	7,158	3,343	10,501	450	10,049	10,499	2
Sep	8,521	3,444	11,964	313	11,637	11,950	14
Oct	18,461	4,581	23,042	189	22,848	23,037	5
Nov	27,240	5,079	32,319	0	32,307	32,307	12
Dec	28,165	4,350	32,515	0	32,515	32,515	0
Annual	218,528	45,969	264,496	2,387	262,110	264,497	-1

Table 224 **Southeast Pond Water Balance for Year 24**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,114	3,358	25,472	0	25,472	25,472	0
Feb	16,527	2,510	19,036	0	19,036	19,036	0
Mar	22,498	3,801	26,299	0	26,299	26,299	0
Apr	29,714	5,020	34,734	0	34,734	34,734	0
May	17,732	3,688	21,420	421	21,017	21,438	-18
Jun	10,714	3,294	14,008	463	13,558	14,021	-13
Jul	9,931	3,537	13,468	552	12,916	13,468	0
Aug	7,209	3,367	10,576	450	10,121	10,571	5
Sep	8,557	3,458	12,016	313	11,695	12,008	8
Oct	18,046	4,478	22,524	189	22,328	22,517	7
Nov	27,290	5,088	32,379	0	32,367	32,367	12
Dec	28,074	4,336	32,410	0	32,410	32,410	0
Annual	218,406	45,935	264,342	2,387	261,953	264,340	2

Table 225 **Southeast Pond Water Balance for Year 25**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,138	3,362	25,500	0	25,500	25,500	0
Feb	16,229	2,464	18,694	0	18,694	18,694	0
Mar	22,707	3,836	26,544	0	26,544	26,544	0
Apr	29,598	5,001	34,599	0	34,599	34,599	0
May	17,875	3,718	21,593	421	21,193	21,614	-21
Jun	10,658	3,277	13,935	463	13,482	13,945	-10
Jul	10,180	3,626	13,806	552	13,252	13,804	2
Aug	7,157	3,343	10,500	450	10,048	10,498	2
Sep	8,615	3,482	12,096	313	11,775	12,088	8
Oct	18,190	4,514	22,704	189	22,509	22,698	6
Nov	27,543	5,136	32,679	0	32,668	32,668	11
Dec	27,999	4,325	32,324	0	32,324	32,324	0
Annual	218,889	46,084	264,974	2,387	262,588	264,975	-1

Table 226 **Southeast Pond Water Balance for Year 26**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,185	3,369	25,554	0	25,554	25,554	0
Feb	16,411	2,492	18,902	0	18,902	18,902	0
Mar	22,056	3,726	25,783	0	25,783	25,783	0
Apr	30,206	5,103	35,309	0	35,309	35,309	0
May	17,593	3,659	21,253	421	20,855	21,276	-23
Jun	10,578	3,253	13,831	463	13,377	13,840	-9
Jul	9,995	3,560	13,555	552	12,998	13,550	5
Aug	7,094	3,313	10,407	450	9,956	10,406	1
Sep	8,703	3,517	12,220	313	11,897	12,210	10
Oct	18,040	4,477	22,517	189	22,322	22,511	6
Nov	27,184	5,068	32,252	0	32,242	32,242	10
Dec	27,929	4,314	32,243	0	32,243	32,243	0
Annual	217,974	45,851	263,826	2,387	261,438	263,825	1

Table 227 **Southeast Pond Water Balance for Year 27**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,795	3,309	25,104	0	25,104	25,104	0
Feb	17,350	2,635	19,985	0	19,985	19,985	0
Mar	22,258	3,761	26,019	0	26,019	26,019	0
Apr	28,907	4,884	33,791	0	33,791	33,791	0
May	18,038	3,752	21,790	421	21,386	21,807	-17
Jun	10,910	3,355	14,265	463	13,814	14,277	-12
Jul	9,919	3,533	13,451	552	12,905	13,457	-6
Aug	7,339	3,428	10,767	450	10,310	10,760	7
Sep	8,342	3,371	11,713	313	11,391	11,704	9
Oct	18,355	4,555	22,910	189	22,715	22,904	6
Nov	27,155	5,063	32,218	0	32,206	32,206	12
Dec	27,670	4,274	31,944	0	31,944	31,944	0
Annual	218,038	45,920	263,957	2,387	261,570	263,957	0

Table 228 **Southeast Pond Water Balance for Year 28**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,019	3,344	25,363	0	25,363	25,363	0
Feb	16,559	2,514	19,074	0	19,074	19,074	0
Mar	22,346	3,775	26,121	0	26,121	26,121	0
Apr	29,624	5,005	34,629	0	34,629	34,629	0
May	17,635	3,668	21,304	421	20,901	21,322	-18
Jun	10,717	3,295	14,012	463	13,562	14,025	-13
Jul	10,019	3,568	13,587	552	13,034	13,586	1
Aug	7,294	3,407	10,701	450	10,245	10,695	6
Sep	8,550	3,455	12,005	313	11,685	11,998	7
Oct	18,105	4,493	22,597	189	22,403	22,592	5
Nov	27,329	5,096	32,424	0	32,412	32,412	12
Dec	27,643	4,270	31,913	0	31,913	31,913	0
Annual	217,840	45,890	263,730	2,387	261,342	263,729	1

Table 229 **Southeast Pond Water Balance for Year 29**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,062	3,350	25,412	0	25,412	25,412	0
Feb	16,097	2,444	18,542	0	18,542	18,542	0
Mar	22,183	3,748	25,931	0	25,931	25,931	0
Apr	29,715	5,020	34,735	0	34,735	34,735	0
May	17,476	3,635	21,112	421	20,712	21,133	-21
Jun	10,733	3,300	14,033	463	13,579	14,042	-9
Jul	9,884	3,520	13,404	552	12,849	13,401	3
Aug	7,170	3,349	10,518	450	10,065	10,515	3
Sep	8,690	3,512	12,202	313	11,881	12,194	8
Oct	18,332	4,549	22,881	189	22,687	22,876	5
Nov	27,366	5,103	32,469	0	32,458	32,458	11
Dec	27,794	4,293	32,087	0	32,087	32,087	0
Annual	217,502	45,823	263,326	2,387	260,938	263,325	1

Table 230 **Southeast Pond Water Balance for Year 30**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,972	3,336	25,308	0	25,308	25,308	0
Feb	16,428	2,495	18,923	0	18,923	18,923	0
Mar	22,367	3,779	26,146	0	26,146	26,146	0
Apr	30,349	5,128	35,476	0	35,476	35,476	0
May	17,571	3,655	21,226	421	20,827	21,248	-22
Jun	10,775	3,313	14,088	463	13,634	14,097	-9
Jul	10,120	3,604	13,724	552	13,168	13,720	4
Aug	7,063	3,299	10,362	450	9,909	10,359	3
Sep	8,574	3,465	12,039	313	11,717	12,030	9
Oct	18,242	4,527	22,769	189	22,575	22,764	5
Nov	27,521	5,131	32,652	0	32,642	32,642	10
Dec	27,624	4,267	31,891	0	31,891	31,891	0
Annual	218,606	45,999	264,604	2,387	262,216	264,603	1

Table 231 **Southeast Pond Water Balance for Year 31**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,983	3,338	25,321	0	25,321	25,321	0
Feb	17,418	2,645	20,063	0	20,063	20,063	0
Mar	22,515	3,804	26,319	0	26,319	26,319	0
Apr	29,133	4,922	34,055	0	34,055	34,055	0
May	17,965	3,737	21,702	421	21,297	21,718	-16
Jun	10,692	3,288	13,980	463	13,530	13,993	-13
Jul	9,895	3,524	13,419	552	12,873	13,425	-6
Aug	7,202	3,364	10,566	450	10,108	10,558	8
Sep	8,538	3,450	11,988	313	11,665	11,978	10
Oct	18,393	4,564	22,957	189	22,764	22,953	4
Nov	27,261	5,083	32,344	0	32,331	32,331	13
Dec	27,454	4,240	31,694	0	31,694	31,694	0
Annual	218,449	45,959	264,408	2,387	262,020	264,407	1

Table 232 **Southeast Pond Water Balance for Year 32**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,925	3,329	25,254	0	25,254	25,254	0
Feb	16,800	2,551	19,351	0	19,351	19,351	0
Mar	22,142	3,741	25,883	0	25,883	25,883	0
Apr	29,617	5,004	34,621	0	34,621	34,621	0
May	18,081	3,761	21,841	421	21,439	21,860	-19
Jun	10,683	3,285	13,969	463	13,519	13,982	-13
Jul	9,911	3,530	13,440	552	12,888	13,440	0
Aug	7,222	3,373	10,595	450	10,143	10,593	2
Sep	8,473	3,424	11,898	313	11,574	11,887	11
Oct	18,599	4,615	23,214	189	23,020	23,209	5
Nov	27,190	5,070	32,259	0	32,247	32,247	12
Dec	28,424	4,390	32,814	0	32,814	32,814	0
Annual	219,067	46,073	265,139	2,387	262,753	265,140	-1

Table 233 **Southeast Pond Water Balance for Year 33**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,846	3,317	25,164	0	25,164	25,164	0
Feb	16,362	2,484	18,846	0	18,846	18,846	0
Mar	22,543	3,809	26,352	0	26,352	26,352	0
Apr	29,367	4,962	34,328	0	34,328	34,328	0
May	17,558	3,652	21,210	421	20,811	21,232	-22
Jun	10,512	3,232	13,744	463	13,290	13,753	-9
Jul	9,953	3,545	13,498	552	12,943	13,495	3
Aug	7,214	3,369	10,583	450	10,130	10,580	3
Sep	8,718	3,523	12,241	313	11,919	12,232	9
Oct	18,305	4,542	22,847	189	22,652	22,841	6
Nov	27,462	5,120	32,583	0	32,572	32,572	11
Dec	27,889	4,308	32,196	0	32,196	32,196	0
Annual	217,729	45,863	263,592	2,387	261,203	263,590	2

Table 234 **Southeast Pond Water Balance for Year 34**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,092	3,355	25,447	0	25,447	25,447	0
Feb	16,126	2,449	18,575	0	18,575	18,575	0
Mar	22,350	3,776	26,127	0	26,127	26,127	0
Apr	29,820	5,038	34,859	0	34,859	34,859	0
May	17,457	3,631	21,088	421	20,690	21,111	-23
Jun	10,632	3,269	13,902	463	13,447	13,910	-8
Jul	10,034	3,574	13,608	552	13,052	13,604	4
Aug	7,071	3,302	10,373	450	9,920	10,370	3
Sep	8,649	3,495	12,144	313	11,822	12,135	9
Oct	18,379	4,561	22,940	189	22,746	22,935	5
Nov	27,175	5,067	32,242	0	32,232	32,232	10
Dec	27,756	4,287	32,043	0	32,043	32,043	0
Annual	217,541	45,804	263,348	2,387	260,960	263,347	1

Table 235 **Southeast Pond Water Balance for Year 35**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,169	3,366	25,536	0	25,536	25,536	0
Feb	17,091	2,595	19,686	0	19,686	19,686	0
Mar	22,357	3,777	26,134	0	26,134	26,134	0
Apr	29,051	4,908	33,959	0	33,959	33,959	0
May	17,984	3,741	21,724	421	21,318	21,739	-15
Jun	10,616	3,264	13,880	463	13,429	13,892	-12
Jul	9,954	3,545	13,500	552	12,954	13,506	-6
Aug	7,158	3,343	10,501	450	10,044	10,494	7
Sep	8,521	3,444	11,964	313	11,642	11,955	9
Oct	18,705	4,642	23,347	189	23,153	23,342	5
Nov	26,957	5,026	31,983	0	31,971	31,971	12
Dec	28,007	4,326	32,333	0	32,333	32,333	0
Annual	218,570	45,977	264,547	2,387	262,159	264,546	1

Table 236 **Southeast Pond Water Balance for Year 36**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,889	3,324	25,213	0	25,213	25,213	0
Feb	16,442	2,497	18,939	0	18,939	18,939	0
Mar	22,787	3,850	26,637	0	26,637	26,637	0
Apr	29,213	4,936	34,149	0	34,149	34,149	0
May	18,079	3,760	21,840	421	21,436	21,857	-17
Jun	10,709	3,293	14,002	463	13,552	14,015	-13
Jul	9,953	3,545	13,498	552	12,948	13,500	-2
Aug	7,333	3,425	10,759	450	10,302	10,752	7
Sep	8,497	3,434	11,931	313	11,611	11,924	7
Oct	18,124	4,497	22,621	189	22,427	22,616	5
Nov	27,473	5,122	32,596	0	32,583	32,583	13
Dec	27,884	4,307	32,191	0	32,191	32,191	0
Annual	218,383	45,990	264,376	2,387	261,988	264,375	1

Table 237 **Southeast Pond Water Balance for Year 37**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,251	3,379	25,630	0	25,630	25,630	0
Feb	16,339	2,481	18,820	0	18,820	18,820	0
Mar	22,156	3,743	25,899	0	25,899	25,899	0
Apr	29,258	4,943	34,201	0	34,201	34,201	0
May	17,746	3,691	21,437	421	21,037	21,458	-21
Jun	10,736	3,301	14,037	463	13,583	14,046	-9
Jul	10,056	3,582	13,637	552	13,084	13,636	1
Aug	7,133	3,332	10,465	450	10,011	10,461	4
Sep	8,547	3,454	12,001	313	11,679	11,992	9
Oct	18,113	4,495	22,608	189	22,413	22,602	6
Nov	27,247	5,080	32,327	0	32,316	32,316	11
Dec	28,135	4,346	32,481	0	32,481	32,481	0
Annual	217,717	45,827	263,543	2,387	261,154	263,541	2

Table 238 **Southeast Pond Water Balance for Year 38**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,949	3,333	25,282	0	25,282	25,282	0
Feb	16,459	2,499	18,958	0	18,958	18,958	0
Mar	22,102	3,734	25,837	0	25,837	25,837	0
Apr	29,921	5,055	34,976	0	34,976	34,976	0
May	17,733	3,689	21,422	421	21,024	21,445	-23
Jun	10,544	3,242	13,786	463	13,332	13,795	-9
Jul	10,163	3,620	13,783	552	13,228	13,780	3
Aug	7,068	3,301	10,369	450	9,915	10,365	4
Sep	9,162	3,703	12,865	313	12,543	12,856	9
Oct	18,226	4,523	22,748	189	22,555	22,744	4
Nov	27,191	5,070	32,260	0	32,250	32,250	10
Dec	28,044	4,332	32,375	0	32,375	32,375	0
Annual	218,562	46,101	264,661	2,387	262,275	264,662	-1

Table 239 **Southeast Pond Water Balance for Year 39**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,290	3,385	25,674	0	25,674	25,674	0
Feb	17,162	2,606	19,768	0	19,768	19,768	0
Mar	22,295	3,767	26,061	0	26,061	26,061	0
Apr	29,221	4,937	34,158	0	34,158	34,158	0
May	18,038	3,752	21,790	421	21,384	21,805	-15
Jun	10,616	3,264	13,880	463	13,430	13,893	-13
Jul	9,815	3,496	13,311	552	12,765	13,317	-6
Aug	7,232	3,378	10,610	450	10,152	10,602	8
Sep	8,493	3,432	11,925	313	11,603	11,916	9
Oct	18,115	4,495	22,611	189	22,417	22,606	5
Nov	27,641	5,154	32,794	0	32,782	32,782	12
Dec	27,674	4,274	31,948	0	31,948	31,948	0
Annual	218,592	45,940	264,530	2,387	262,142	264,529	1

Table 240 **Southeast Pond Water Balance for Year 40**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,058	3,349	25,407	0	25,407	25,407	0
Feb	16,859	2,560	19,419	0	19,419	19,419	0
Mar	22,305	3,768	26,073	0	26,073	26,073	0
Apr	29,372	4,963	34,335	0	34,335	34,335	0
May	18,018	3,748	21,766	421	21,363	21,784	-18
Jun	10,624	3,267	13,891	463	13,440	13,903	-12
Jul	10,210	3,636	13,847	552	13,297	13,849	-2
Aug	7,205	3,365	10,571	450	10,115	10,565	6
Sep	8,568	3,463	12,031	313	11,711	12,024	7
Oct	18,285	4,537	22,822	189	22,626	22,815	7
Nov	27,188	5,069	32,258	0	32,246	32,246	12
Dec	27,767	4,289	32,056	0	32,056	32,056	0
Annual	218,459	46,014	264,476	2,387	262,088	264,475	1

Table 241 **Southeast Pond Water Balance for Year 41**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,079	3,353	25,432	0	25,432	25,432	0
Feb	16,666	2,531	19,197	0	19,197	19,197	0
Mar	22,608	3,820	26,428	0	26,428	26,428	0
Apr	29,511	4,986	34,497	0	34,497	34,497	0
May	17,459	3,631	21,090	421	20,691	21,112	-22
Jun	10,629	3,268	13,897	463	13,444	13,907	-10
Jul	10,161	3,619	13,779	552	13,226	13,778	1
Aug	7,175	3,351	10,527	450	10,073	10,523	4
Sep	8,502	3,436	11,938	313	11,617	11,930	8
Oct	18,329	4,548	22,878	189	22,682	22,871	7
Nov	27,204	5,072	32,276	0	32,265	32,265	11
Dec	27,912	4,311	32,223	0	32,223	32,223	0
Annual	218,235	45,926	264,162	2,387	261,775	264,162	0

Table 242 **Southeast Pond Water Balance for Year 42**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,275	3,382	25,657	0	25,657	25,657	0
Feb	16,099	2,445	18,544	0	18,544	18,544	0
Mar	22,170	3,746	25,915	0	25,915	25,915	0
Apr	29,846	5,043	34,888	0	34,888	34,888	0
May	17,635	3,668	21,303	421	20,905	21,326	-23
Jun	10,649	3,275	13,924	463	13,468	13,931	-7
Jul	10,141	3,612	13,753	552	13,198	13,750	3
Aug	7,094	3,313	10,407	450	9,954	10,404	3
Sep	8,616	3,482	12,098	313	11,777	12,090	8
Oct	18,692	4,638	23,330	189	23,136	23,325	5
Nov	27,463	5,121	32,584	0	32,574	32,574	10
Dec	27,956	4,318	32,274	0	32,274	32,274	0
Annual	218,636	46,043	264,677	2,387	262,290	264,677	0

Table 243 **Southeast Pond Water Balance for Year 43**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,034	3,346	25,380	0	25,380	25,380	0
Feb	17,103	2,597	19,700	0	19,700	19,700	0
Mar	22,391	3,783	26,174	0	26,174	26,174	0
Apr	29,477	4,980	34,458	0	34,458	34,458	0
May	17,787	3,700	21,486	421	21,081	21,502	-16
Jun	10,561	3,247	13,809	463	13,357	13,820	-11
Jul	9,917	3,532	13,449	552	12,904	13,456	-7
Aug	7,171	3,350	10,521	450	10,064	10,514	7
Sep	8,476	3,425	11,901	313	11,577	11,890	11
Oct	18,247	4,528	22,775	189	22,581	22,770	5
Nov	27,206	5,073	32,279	0	32,266	32,266	13
Dec	27,522	4,251	31,773	0	31,773	31,773	0
Annual	217,892	45,812	263,705	2,387	261,315	263,702	3

Table 244 **Southeast Pond Water Balance for Year 44**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,924	3,329	25,254	0	25,254	25,254	0
Feb	16,875	2,562	19,437	0	19,437	19,437	0
Mar	22,777	3,848	26,626	0	26,626	26,626	0
Apr	29,628	5,006	34,634	0	34,634	34,634	0
May	17,739	3,690	21,428	421	21,025	21,446	-18
Jun	10,630	3,268	13,898	463	13,447	13,910	-12
Jul	10,057	3,582	13,639	552	13,090	13,642	-3
Aug	7,258	3,390	10,648	450	10,192	10,642	6
Sep	8,482	3,428	11,909	313	11,589	11,902	7
Oct	18,452	4,579	23,031	189	22,836	23,025	6
Nov	27,714	5,167	32,882	0	32,870	32,870	12
Dec	27,532	4,252	31,784	0	31,784	31,784	0
Annual	219,068	46,101	265,170	2,387	262,784	265,171	-1

Table 245 **Southeast Pond Water Balance for Year 45**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,912	3,327	25,240	0	25,240	25,240	0
Feb	16,501	2,506	19,007	0	19,007	19,007	0
Mar	22,424	3,789	26,212	0	26,212	26,212	0
Apr	29,987	5,066	35,054	0	35,054	35,054	0
May	17,611	3,663	21,274	421	20,875	21,296	-22
Jun	10,668	3,280	13,948	463	13,497	13,960	-12
Jul	9,903	3,527	13,431	552	12,876	13,428	3
Aug	7,271	3,396	10,666	450	10,212	10,662	4
Sep	8,566	3,462	12,028	313	11,707	12,020	8
Oct	18,227	4,523	22,750	189	22,556	22,745	5
Nov	27,128	5,058	32,187	0	32,175	32,175	12
Dec	28,020	4,328	32,348	0	32,348	32,348	0
Annual	218,218	45,925	264,145	2,387	261,759	264,146	-1

Table 246 **Southeast Pond Water Balance for Year 46**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,593	3,279	24,872	0	24,872	24,872	0
Feb	16,029	2,434	18,464	0	18,464	18,464	0
Mar	22,070	3,729	25,798	0	25,798	25,798	0
Apr	29,985	5,066	35,051	0	35,051	35,051	0
May	17,458	3,631	21,089	421	20,691	21,112	-23
Jun	10,618	3,265	13,883	463	13,428	13,891	-8
Jul	9,954	3,545	13,499	552	12,945	13,497	2
Aug	7,122	3,327	10,449	450	9,996	10,446	3
Sep	8,661	3,500	12,162	313	11,840	12,153	9
Oct	18,172	4,509	22,681	189	22,487	22,676	5
Nov	27,427	5,114	32,541	0	32,530	32,530	11
Dec	27,891	4,308	32,199	0	32,199	32,199	0
Annual	216,980	45,707	262,688	2,387	260,301	262,688	0

Table 247 **Southeast Pond Water Balance for Year 47**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,024	3,344	25,369	0	25,369	25,369	0
Feb	17,087	2,595	19,682	0	19,682	19,682	0
Mar	22,437	3,791	26,228	0	26,228	26,228	0
Apr	28,857	4,875	33,732	0	33,732	33,732	0
May	18,102	3,765	21,867	421	21,461	21,882	-15
Jun	10,575	3,252	13,827	463	13,376	13,839	-12
Jul	9,863	3,513	13,377	552	12,831	13,383	-6
Aug	7,211	3,368	10,579	450	10,122	10,572	7
Sep	8,535	3,449	11,984	313	11,660	11,973	11
Oct	18,717	4,644	23,361	189	23,168	23,357	4
Nov	27,231	5,077	32,309	0	32,296	32,296	13
Dec	27,796	4,293	32,089	0	32,089	32,089	0
Annual	218,435	45,966	264,404	2,387	262,014	264,401	3

Table 248 **Southeast Pond Water Balance for Year 48**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,864	3,320	25,184	0	25,184	25,184	0
Feb	16,947	2,573	19,520	0	19,520	19,520	0
Mar	22,266	3,762	26,027	0	26,027	26,027	0
Apr	29,040	4,906	33,946	0	33,946	33,946	0
May	17,703	3,682	21,385	421	20,982	21,403	-18
Jun	10,695	3,289	13,983	463	13,533	13,996	-13
Jul	10,066	3,585	13,650	552	13,101	13,653	-3
Aug	7,301	3,410	10,712	450	10,255	10,705	7
Sep	8,380	3,387	11,767	313	11,447	11,760	7
Oct	18,503	4,591	23,094	189	22,898	23,087	7
Nov	27,704	5,166	32,870	0	32,858	32,858	12
Dec	27,864	4,304	32,168	0	32,168	32,168	0
Annual	218,333	45,975	264,306	2,387	261,919	264,306	0

Table 249 **Southeast Pond Water Balance for Year 49**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	22,243	3,378	25,620	0	25,620	25,620	0
Feb	16,158	2,454	18,611	0	18,611	18,611	0
Mar	22,201	3,751	25,952	0	25,952	25,952	0
Apr	29,963	5,062	35,025	0	35,025	35,025	0
May	18,076	3,760	21,836	421	21,436	21,857	-21
Jun	10,708	3,293	14,001	463	13,548	14,011	-10
Jul	10,170	3,622	13,792	552	13,240	13,792	0
Aug	7,126	3,328	10,455	450	10,001	10,451	4
Sep	8,453	3,416	11,869	313	11,548	11,861	8
Oct	17,963	4,457	22,420	189	22,226	22,415	5
Nov	27,530	5,133	32,664	0	32,652	32,652	12
Dec	27,724	4,282	32,006	0	32,006	32,006	0
Annual	218,315	45,936	264,251	2,387	261,865	264,252	-1

Table 250 **Southeast Pond Water Balance for Year 50**

Month	Inflow Summary (m3)			Outflow Summary (m3)			Δ Storage (m3)
	Surface Runoff	Seepage	Total Inflow	Evaporation	Discharge	Total Outflow	
Jan	21,914	3,328	25,241	0	25,241	25,241	0
Feb	16,184	2,458	18,642	0	18,642	18,642	0
Mar	22,202	3,751	25,953	0	25,953	25,953	0
Apr	29,585	4,998	34,583	0	34,583	34,583	0
May	17,469	3,634	21,103	421	20,705	21,126	-23
Jun	10,558	3,246	13,804	463	13,349	13,812	-8
Jul	9,886	3,521	13,407	552	12,853	13,405	2
Aug	7,136	3,333	10,470	450	10,018	10,468	2
Sep	8,628	3,487	12,115	313	11,794	12,107	8
Oct	18,091	4,489	22,580	189	22,385	22,574	6
Nov	27,604	5,147	32,750	0	32,740	32,740	10
Dec	27,698	4,278	31,976	0	31,976	31,976	0
Annual	216,955	45,670	262,624	2,387	260,239	262,626	-2

Table 251 East Pit Water Balance for Year 1

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	25,609	288	0	0	25,897	4,519	20,656	0	25,175	722
Feb	18,864	772	0	0	19,636	3,329	16,323	0	19,652	-16
Mar	28,447	1,421	0	0	29,868	5,020	24,326	0	29,346	522
Apr	38,270	1,942	0	0	40,212	6,754	33,791	0	40,545	-333
May	27,912	2,592	0	0	30,504	4,926	26,119	0	31,045	-541
Jun	24,902	3,075	0	0	27,977	4,394	23,176	0	27,570	407
Jul	26,977	3,763	0	0	30,740	4,761	25,823	0	30,584	156
Aug	25,579	4,359	0	0	29,938	4,514	25,331	0	29,845	93
Sep	26,683	4,785	0	0	31,468	4,709	26,995	0	31,704	-236
Oct	33,979	5,530	0	0	39,509	5,996	33,494	0	39,490	19
Nov	39,055	5,918	0	0	44,973	6,892	37,378	0	44,270	703
Dec	32,364	6,701	0	0	39,065	5,711	34,165	0	39,876	-811
Annual	348,641	41,146	0	0	389,787	61,525	327,577	0	389,102	685

Table 252 East Pit Water Balance for Year 2

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	25,597	7,296	0	0	32,893	4,517	28,148	0	32,665	228
Feb	18,532	7,102	0	0	25,634	3,270	22,521	0	25,791	-157
Mar	28,419	8,429	0	0	36,848	5,015	31,090	0	36,105	743
Apr	38,636	8,724	0	0	47,360	6,818	40,795	0	47,613	-253
May	27,885	9,600	0	0	37,485	4,921	33,194	0	38,115	-630
Jun	25,059	9,857	0	0	34,916	4,422	30,144	0	34,566	350
Jul	26,827	10,772	0	0	37,599	4,734	32,699	0	37,433	166
Aug	25,719	11,367	0	0	37,086	4,539	32,407	0	36,946	140
Sep	26,419	11,567	0	0	37,986	4,662	33,424	0	38,086	-100
Oct	34,128	12,538	0	0	46,666	6,023	40,811	0	46,834	-168
Nov	39,123	12,700	0	0	51,823	6,904	43,740	0	50,644	1,179
Dec	32,499	13,709	0	0	46,208	5,735	41,673	0	47,408	-1,200
Annual	348,843	123,661	0	0	472,504	61,560	410,646	0	472,206	298

Table 253 East Pit Water Balance for Year 3

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	25,154	14,305	0	0	39,459	4,439	34,977	0	39,416	43
Feb	20,107	13,921	0	0	34,028	3,548	30,251	0	33,799	229
Mar	28,333	15,457	0	0	43,790	5,000	38,153	0	43,153	637
Apr	37,702	15,525	0	0	53,227	6,653	47,364	0	54,017	-790
May	27,753	16,628	0	0	44,381	4,898	39,552	0	44,450	-69
Jun	24,874	16,658	0	0	41,532	4,390	36,982	0	41,372	160
Jul	26,898	17,799	0	0	44,697	4,747	39,704	0	44,451	246
Aug	25,299	18,394	0	0	43,693	4,465	39,201	0	43,666	27
Sep	26,011	18,368	0	0	44,379	4,590	40,350	0	44,940	-561
Oct	34,517	19,566	0	0	54,083	6,091	47,590	0	53,681	402
Nov	38,350	19,501	0	0	57,851	6,768	50,829	0	57,597	254
Dec	32,376	20,737	0	0	53,113	5,713	47,918	0	53,631	-518
Annual	347,374	206,859	0	0	554,233	61,302	492,871	0	554,173	60

Table 254 East Pit Water Balance for Year 4

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	25,397	21,332	0	0	46,729	4,482	41,962	0	46,444	285
Feb	18,944	19,779	0	0	38,723	3,343	35,297	0	38,640	83
Mar	28,513	22,465	0	0	50,978	5,032	45,287	0	50,319	659
Apr	38,027	22,307	0	0	60,334	6,711	54,248	0	60,959	-625
May	28,298	23,636	0	0	51,934	4,994	47,318	0	52,312	-378
Jun	24,730	23,441	0	0	48,171	4,364	43,491	0	47,855	316
Jul	27,144	24,808	0	0	51,952	4,790	46,886	0	51,676	276
Aug	25,177	25,403	0	0	50,580	4,443	46,322	0	50,765	-185
Sep	26,164	25,150	0	0	51,314	4,617	46,836	0	51,453	-139
Oct	34,541	26,574	0	0	61,115	6,095	54,992	0	61,087	28
Nov	38,584	26,284	0	0	64,868	6,809	57,436	0	64,245	623
Dec	32,893	27,745	0	0	60,638	5,805	55,353	0	61,158	-520
Annual	348,412	288,924	0	0	637,336	61,485	575,428	0	636,913	423

Table 255 East Pit Water Balance for Year 5

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	25,418	28,341	0	0	53,759	4,486	49,186	0	53,672	87
Feb	18,632	26,110	0	0	44,742	3,288	41,478	0	44,766	-24
Mar	28,426	29,473	0	0	57,899	5,016	52,161	0	57,177	722
Apr	38,028	29,089	0	0	67,117	6,711	60,906	0	67,617	-500
May	27,511	30,645	0	0	58,156	4,855	53,778	0	58,633	-477
Jun	24,863	30,223	0	0	55,086	4,388	50,297	0	54,685	401
Jul	27,383	31,816	0	0	59,199	4,832	54,191	0	59,023	176
Aug	25,333	32,411	0	0	57,744	4,471	53,209	0	57,680	64
Sep	26,803	31,932	0	0	58,735	4,730	54,273	0	59,003	-268
Oct	34,599	33,582	0	0	68,181	6,106	62,014	0	68,120	61
Nov	39,109	33,066	0	0	72,175	6,902	64,547	0	71,449	726
Dec	32,743	34,754	0	0	67,497	5,778	62,616	0	68,394	-897
Annual	348,848	371,442	0	0	720,290	61,563	658,656	0	720,219	71

Table 256 East Pit Water Balance for Year 6

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	26,083	35,349	0	0	61,432	4,603	56,531	0	61,134	298
Feb	18,741	32,440	0	0	51,181	3,307	48,048	0	51,355	-174
Mar	27,954	36,482	0	0	64,436	4,933	58,749	0	63,682	754
Apr	38,354	35,872	0	0	74,226	6,768	67,732	0	74,500	-274
May	27,886	37,653	0	0	65,539	4,921	61,325	0	66,246	-707
Jun	24,645	37,005	0	0	61,650	4,349	56,837	0	61,186	464
Jul	26,979	38,824	0	0	65,803	4,761	60,900	0	65,661	142
Aug	25,903	39,419	0	0	65,322	4,571	60,624	0	65,195	127
Sep	26,800	38,715	0	0	65,515	4,729	60,841	0	65,570	-55
Oct	33,758	40,591	0	0	74,349	5,957	68,634	0	74,591	-242
Nov	39,138	39,848	0	0	78,986	6,907	70,844	0	77,751	1,235
Dec	32,346	41,762	0	0	74,108	5,708	69,620	0	75,328	-1,220
Annual	348,587	453,960	0	0	802,547	61,514	740,685	0	802,199	348

Table 257 East Pit Water Balance for Year 7

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	25,487	42,357	0	0	67,844	4,498	63,304	0	67,802	42
Feb	19,688	40,163	0	0	59,851	3,474	56,140	0	59,614	237
Mar	28,483	43,509	0	0	71,992	5,026	66,443	0	71,469	523
Apr	37,977	42,672	0	0	80,649	6,702	74,623	0	81,325	-676
May	27,924	44,680	0	0	72,604	4,928	67,752	0	72,680	-76
Jun	24,784	43,806	0	0	68,590	4,374	63,985	0	68,359	231
Jul	27,729	45,852	0	0	73,581	4,893	68,549	0	73,442	139
Aug	25,931	46,447	0	0	72,378	4,576	67,720	0	72,296	82
Sep	26,047	45,515	0	0	71,562	4,597	67,541	0	72,138	-576
Oct	34,803	47,618	0	0	82,421	6,142	75,801	0	81,943	478
Nov	38,070	46,649	0	0	84,719	6,718	77,853	0	84,571	148
Dec	33,089	48,789	0	0	81,878	5,839	76,398	0	82,237	-359
Annual	350,012	538,057	0	0	888,069	61,767	826,109	0	887,876	193

Table 258 East Pit Water Balance for Year 8

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	25,020	49,385	0	0	74,405	4,415	69,846	0	74,261	144
Feb	19,121	45,117	0	0	64,238	3,374	60,765	0	64,139	99
Mar	28,502	50,518	0	0	79,020	5,030	73,340	0	78,370	650
Apr	37,650	49,455	0	0	87,105	6,644	81,106	0	87,750	-645
May	27,628	51,689	0	0	79,317	4,876	74,796	0	79,672	-355
Jun	24,974	50,588	0	0	75,562	4,407	70,835	0	75,242	320
Jul	27,195	52,860	0	0	80,055	4,799	74,998	0	79,797	258
Aug	25,712	53,455	0	0	79,167	4,537	74,813	0	79,350	-183
Sep	25,920	52,298	0	0	78,218	4,574	73,796	0	78,370	-152
Oct	34,227	54,626	0	0	88,853	6,040	82,729	0	88,769	84
Nov	38,732	53,431	0	0	92,163	6,835	84,747	0	91,582	581
Dec	32,478	55,798	0	0	88,276	5,731	83,037	0	88,768	-492
Annual	347,159	619,220	0	0	966,379	61,262	904,808	0	966,070	309

Table 259 East Pit Water Balance for Year 9

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,655	55,740	0	16,088	101,483	0	0	0	0	101,483
Feb	21,804	49,697	0	11,829	83,330	0	0	0	0	83,330
Mar	33,510	54,304	0	16,598	104,412	0	0	0	0	104,412
Apr	43,975	51,833	0	21,782	117,590	0	0	0	0	117,590
May	32,767	52,819	0	13,478	99,064	26,672	0	0	26,672	72,392
Jun	29,613	50,396	0	8,902	88,911	29,286	0	0	29,286	59,625
Jul	31,896	51,334	0	8,572	91,802	34,949	0	0	34,949	56,853
Aug	29,404	50,579	0	6,550	86,533	28,511	0	0	28,511	58,022
Sep	31,148	48,229	0	7,725	87,102	19,811	0	0	19,811	67,291
Oct	40,600	49,094	0	14,605	104,299	11,956	0	0	11,956	92,343
Nov	45,248	46,792	0	20,634	112,674	0	0	0	0	112,674
Dec	38,690	47,609	0	20,685	106,984	0	0	0	0	106,984
Annual	408,310	608,426	0	167,448	1,184,184	151,185	0	0	151,185	1,032,999

Table 260 East Pit Water Balance for Year 10

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,882	46,855	0	16,211	92,948	0	0	0	0	92,948
Feb	21,498	41,672	0	11,662	74,832	0	0	0	0	74,832
Mar	33,151	45,419	0	16,421	94,991	0	0	0	0	94,991
Apr	44,957	43,235	0	22,269	110,461	0	0	0	0	110,461
May	34,055	43,934	0	14,015	92,004	26,672	0	0	26,672	65,332
Jun	29,084	41,798	0	8,744	79,626	29,286	0	0	29,286	50,340
Jul	31,534	42,449	0	8,471	82,454	34,949	0	0	34,949	47,505
Aug	30,193	41,694	0	6,728	78,615	28,511	0	0	28,511	50,104
Sep	31,399	39,631	0	7,787	78,817	19,811	0	0	19,811	59,006
Oct	40,498	40,209	0	14,567	95,274	11,956	0	0	11,956	83,318
Nov	45,548	38,194	0	20,771	104,513	0	0	0	0	104,513
Dec	38,529	38,724	0	20,599	97,852	0	0	0	0	97,852
Annual	410,328	503,814	0	168,245	1,082,387	151,185	0	0	151,185	931,202

Table 261 **East Pit Water Balance for Year 11**

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,729	37,970	0	16,128	83,827	0	0	0	0	83,827
Feb	23,374	34,837	0	12,680	70,891	0	0	0	0	70,891
Mar	33,555	36,509	0	16,621	86,685	0	0	0	0	86,685
Apr	43,973	34,613	0	21,781	100,367	0	0	0	0	100,367
May	33,008	35,024	0	13,579	81,611	26,672	0	0	26,672	54,939
Jun	29,364	33,176	0	8,829	71,369	29,286	0	0	29,286	42,083
Jul	31,596	33,539	0	8,492	73,627	34,949	0	0	34,949	38,678
Aug	30,930	32,785	0	6,895	70,610	28,511	0	0	28,511	42,099
Sep	30,218	31,009	0	7,491	68,718	19,811	0	0	19,811	48,907
Oct	40,451	31,300	0	14,551	86,302	11,956	0	0	11,956	74,346
Nov	46,063	29,572	0	21,006	96,641	0	0	0	0	96,641
Dec	38,401	29,815	0	20,531	88,747	0	0	0	0	88,747
Annual	410,662	400,149	0	168,584	979,395	151,185	0	0	151,185	828,210

Table 262 East Pit Water Balance for Year 12

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,901	29,354	0	16,221	75,476	0	0	0	0	75,476
Feb	22,238	26,379	0	12,064	60,681	0	0	0	0	60,681
Mar	33,517	29,057	0	16,602	79,176	0	0	0	0	79,176
Apr	44,584	27,971	84,953	22,084	179,592	0	0	0	0	179,592
May	32,492	28,749	76,582	13,365	151,188	26,672	0	0	26,672	124,516
Jun	29,332	27,673	64,414	8,820	130,239	29,286	0	0	29,286	100,953
Jul	31,965	28,442	66,004	8,592	135,003	34,949	0	0	34,949	100,054
Aug	29,760	28,286	63,311	6,629	127,986	28,511	0	0	28,511	99,475
Sep	30,869	27,224	69,404	7,655	135,152	19,811	0	0	19,811	115,341
Oct	40,297	27,978	93,832	14,495	176,602	11,956	0	0	11,956	164,646
Nov	46,535	26,927	106,114	21,221	200,797	0	0	0	0	200,797
Dec	38,457	27,671	104,231	20,561	190,920	0	0	0	0	190,920
Annual	409,947	335,711	728,845	168,309	1,642,812	151,185	0	0	151,185	1,491,627

Table 263 East Pit Water Balance for Year 13

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,262	27,514	93,377	15,875	166,028	0	0	0	0	166,028
Feb	22,147	24,717	74,766	12,015	133,645	0	0	0	0	133,645
Mar	33,228	27,217	89,647	16,459	166,551	0	0	0	0	166,551
Apr	44,160	26,190	87,282	21,874	179,506	0	0	0	0	179,506
May	32,700	26,909	82,790	13,450	155,849	26,672	0	0	26,672	129,177
Jun	29,794	25,892	73,746	8,959	138,391	29,286	0	0	29,286	109,105
Jul	31,851	26,602	78,900	8,561	145,914	34,949	0	0	34,949	110,965
Aug	30,041	26,445	77,142	6,693	140,321	28,511	0	0	28,511	111,810
Sep	31,229	25,443	78,892	7,743	143,307	19,811	0	0	19,811	123,496
Oct	40,365	26,138	98,553	14,520	179,576	11,956	0	0	11,956	167,620
Nov	45,492	25,146	106,838	20,745	198,221	0	0	0	0	198,221
Dec	38,296	25,830	102,607	20,475	187,208	0	0	0	0	187,208
Annual	408,565	314,043	1,044,540	167,369	1,934,517	151,185	0	0	151,185	1,783,332

Table 264 East Pit Water Balance for Year 14

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,629	25,674	91,210	16,074	162,587	0	0	0	0	162,587
Feb	22,179	23,055	73,137	12,032	130,403	0	0	0	0	130,403
Mar	33,543	25,376	88,758	16,615	164,292	0	0	0	0	164,292
Apr	45,163	24,409	0	22,371	91,943	0	0	0	0	91,943
May	32,413	25,069	0	13,331	70,813	26,672	0	0	26,672	44,141
Jun	29,051	24,111	0	8,733	61,895	29,286	0	0	29,286	32,609
Jul	31,791	24,761	0	8,543	65,095	34,949	0	0	34,949	30,146
Aug	30,075	24,605	0	6,703	61,383	28,511	0	0	28,511	32,872
Sep	31,135	23,662	0	7,721	62,518	19,811	0	0	19,811	42,707
Oct	39,923	24,297	0	14,360	78,580	11,956	0	0	11,956	66,624
Nov	45,855	23,365	0	20,911	90,131	0	0	0	0	90,131
Dec	38,181	23,990	0	20,413	82,584	0	0	0	0	82,584
Annual	408,938	292,374	253,105	167,807	1,122,224	151,185	0	0	151,185	971,039

Table 265 East Pit Water Balance for Year 15

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,888	23,834	2,940	16,214	72,876	0	0	0	0	72,876
Feb	23,456	22,154	0	12,725	58,335	0	0	0	0	58,335
Mar	33,581	23,531	0	16,634	73,746	0	0	0	0	73,746
Apr	43,959	22,623	0	21,774	88,356	0	0	0	0	88,356
May	33,448	23,224	0	13,760	70,432	26,672	0	0	26,672	43,760
Jun	29,209	22,326	0	8,783	60,318	29,286	0	0	29,286	31,032
Jul	31,385	22,916	0	8,434	62,735	34,949	0	0	34,949	27,786
Aug	29,795	22,760	0	6,638	59,193	28,511	0	0	28,511	30,682
Sep	30,552	21,877	0	7,574	60,003	19,811	0	0	19,811	40,192
Oct	41,094	22,452	0	14,783	78,329	11,956	0	0	11,956	66,373
Nov	45,659	21,579	0	20,822	88,060	0	0	0	0	88,060
Dec	38,279	22,145	0	20,465	80,889	0	0	0	0	80,889
Annual	410,305	271,421	2,940	168,606	853,272	151,185	0	0	151,185	702,087

Table 266 East Pit Water Balance for Year 16

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,631	21,988	0	16,075	67,694	0	0	0	0	67,694
Feb	22,582	19,726	0	12,251	54,559	0	0	0	0	54,559
Mar	34,046	21,691	0	16,864	72,601	0	0	0	0	72,601
Apr	44,119	20,842	0	21,854	86,815	0	0	0	0	86,815
May	32,750	21,383	0	13,470	67,603	26,672	0	0	26,672	40,931
Jun	29,500	20,545	0	8,871	58,916	29,286	0	0	29,286	29,630
Jul	32,652	21,076	0	8,779	62,507	34,949	0	0	34,949	27,558
Aug	29,841	20,919	0	6,648	57,408	28,511	0	0	28,511	28,897
Sep	30,514	20,096	0	7,565	58,175	19,811	0	0	19,811	38,364
Oct	40,340	20,612	0	14,511	75,463	11,956	0	0	11,956	63,507
Nov	45,076	19,798	0	20,556	85,430	0	0	0	0	85,430
Dec	38,442	20,304	0	20,552	79,298	0	0	0	0	79,298
Annual	409,493	248,980	0	167,996	826,469	151,185	0	0	151,185	675,284

Table 267 East Pit Water Balance for Year 17

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,600	20,148	0	16,058	65,806	0	0	0	0	65,806
Feb	21,961	18,064	0	11,914	51,939	0	0	0	0	51,939
Mar	33,728	19,850	0	16,706	70,284	0	0	0	0	70,284
Apr	44,825	19,061	0	22,203	86,089	0	0	0	0	86,089
May	32,695	19,543	0	13,449	65,687	26,672	0	0	26,672	39,015
Jun	29,658	18,764	0	8,917	57,339	29,286	0	0	29,286	28,053
Jul	32,218	19,235	0	8,660	60,113	34,949	0	0	34,949	25,164
Aug	29,838	19,079	0	6,648	55,565	28,511	0	0	28,511	27,054
Sep	31,355	18,315	0	7,775	57,445	19,811	0	0	19,811	37,634
Oct	40,604	18,771	0	14,606	73,981	11,956	0	0	11,956	62,025
Nov	45,545	18,017	0	20,770	84,332	0	0	0	0	84,332
Dec	38,570	18,464	0	20,621	77,655	0	0	0	0	77,655
Annual	410,597	227,311	0	168,327	806,235	151,185	0	0	151,185	655,050

Table 268 East Pit Water Balance for Year 18

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	30,162	18,308	0	16,363	64,833	0	0	0	0	64,833
Feb	21,515	16,402	0	11,672	49,589	0	0	0	0	49,589
Mar	33,510	18,010	0	16,598	68,118	0	0	0	0	68,118
Apr	45,139	17,280	0	22,359	84,778	0	0	0	0	84,778
May	32,638	17,703	0	13,426	63,767	26,672	0	0	26,672	37,095
Jun	29,102	16,983	0	8,750	54,835	29,286	0	0	29,286	25,549
Jul	31,788	17,395	0	8,543	57,726	34,949	0	0	34,949	22,777
Aug	29,265	17,239	0	6,519	53,023	28,511	0	0	28,511	24,512
Sep	31,007	16,534	0	7,688	55,229	19,811	0	0	19,811	35,418
Oct	40,708	16,931	0	14,643	72,282	11,956	0	0	11,956	60,326
Nov	45,282	16,236	0	20,650	82,168	0	0	0	0	82,168
Dec	38,795	16,624	0	20,741	76,160	0	0	0	0	76,160
Annual	408,911	205,645	0	167,952	782,508	151,185	0	0	151,185	631,323

Table 269 East Pit Water Balance for Year 19

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,894	16,467	0	16,218	62,579	0	0	0	0	62,579
Feb	23,565	15,263	0	12,784	51,612	0	0	0	0	51,612
Mar	33,347	16,165	0	16,518	66,030	0	0	0	0	66,030
Apr	43,817	15,494	0	21,704	81,015	0	0	66	66	80,949
May	33,382	15,857	0	13,733	62,972	26,672	0	585	27,257	35,715
Jun	28,967	15,197	0	8,710	52,874	29,286	0	494	29,780	23,094
Jul	31,787	15,550	0	8,544	55,881	34,949	0	237	35,186	20,695
Aug	29,729	15,393	0	6,624	51,746	28,511	0	949	29,460	22,286
Sep	30,689	14,748	0	7,608	53,045	19,811	0	1,873	21,684	31,361
Oct	41,133	15,086	0	14,798	71,017	11,956	0	9,584	21,540	49,477
Nov	45,586	14,450	0	20,788	80,824	0	0	22,889	22,889	57,935
Dec	38,488	14,778	0	20,577	73,843	0	0	29,710	29,710	44,133
Annual	410,384	184,448	0	168,606	763,438	151,185	0	66,387	217,572	545,866

Table 270 East Pit Water Balance for Year 20

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,697	14,699	0	16,111	60,507	0	0	30,969	30,969	29,538
Feb	22,337	13,276	0	12,118	47,731	0	0	29,363	29,363	18,368
Mar	33,833	14,699	0	16,758	65,290	0	0	39,618	39,618	25,672
Apr	44,103	14,225	0	21,845	80,173	0	0	54,647	54,647	25,526
May	32,568	14,699	0	13,395	60,662	26,672	0	24,600	51,272	9,390
Jun	29,729	14,225	0	8,940	52,894	29,286	0	17,591	46,877	6,017
Jul	32,031	14,699	0	8,609	55,339	34,949	0	17,967	52,916	2,423
Aug	29,453	14,699	0	6,561	50,713	28,511	0	18,585	47,096	3,617
Sep	31,330	14,225	0	7,770	53,325	19,811	0	27,608	47,419	5,906
Oct	40,477	14,699	0	14,560	69,736	11,956	0	54,318	66,274	3,462
Nov	45,397	14,225	0	20,702	80,324	0	0	78,788	78,788	1,536
Dec	38,380	14,699	0	20,519	73,598	0	0	73,598	73,598	0
Annual	409,335	173,069	0	167,888	750,292	151,185	0	467,652	618,837	131,455

Table 271 East Pit Water Balance for Year 21

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	30,227	14,699	0	16,398	61,324	0	0	61,324	61,324	0
Feb	22,098	13,276	0	11,988	47,362	0	0	47,362	47,362	0
Mar	33,831	14,699	0	16,758	65,288	0	0	65,287	65,287	1
Apr	44,254	14,225	0	21,920	80,399	0	0	80,398	80,398	1
May	32,819	14,699	0	13,500	61,018	26,672	0	35,429	62,101	-1,083
Jun	29,059	14,225	0	8,735	52,019	29,286	0	23,699	52,985	-966
Jul	32,528	14,699	0	8,747	55,974	34,949	0	22,727	57,676	-1,702
Aug	30,361	14,699	0	6,765	51,825	28,511	0	21,799	50,310	1,515
Sep	31,362	14,225	0	7,778	53,365	19,811	0	31,693	51,504	1,861
Oct	40,728	14,699	0	14,650	70,077	11,956	0	57,743	69,699	378
Nov	45,485	14,225	0	20,742	80,452	0	0	80,452	80,452	0
Dec	38,941	14,699	0	20,819	74,459	0	0	74,459	74,459	0
Annual	411,693	173,069	0	168,800	753,562	151,185	0	602,372	753,557	5

Table 272 East Pit Water Balance for Year 22

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,823	14,699	0	16,179	60,701	0	0	60,701	60,701	0
Feb	21,587	13,276	0	11,711	46,574	0	0	46,575	46,575	-1
Mar	33,770	14,699	0	16,727	65,196	0	0	65,196	65,196	0
Apr	45,139	14,225	0	22,359	81,723	0	0	81,722	81,722	1
May	32,615	14,699	0	13,418	60,732	26,672	0	35,289	61,961	-1,229
Jun	28,944	14,225	0	8,700	51,869	29,286	0	23,433	52,719	-850
Jul	32,273	14,699	0	8,674	55,646	34,949	0	22,381	57,330	-1,684
Aug	29,365	14,699	0	6,540	50,604	28,511	0	20,566	49,077	1,527
Sep	31,195	14,225	0	7,735	53,155	19,811	0	31,469	51,280	1,875
Oct	40,403	14,699	0	14,533	69,635	11,956	0	57,317	69,273	362
Nov	45,786	14,225	0	20,880	80,891	0	0	80,890	80,890	1
Dec	38,969	14,699	0	20,834	74,502	0	0	74,502	74,502	0
Annual	409,869	173,069	0	168,290	751,228	151,185	0	600,041	751,226	2

Table 273 East Pit Water Balance for Year 23

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,435	14,699	0	15,969	60,103	0	0	60,102	60,102	1
Feb	23,766	13,750	0	12,893	50,409	0	0	50,409	50,409	0
Mar	33,252	14,699	0	16,471	64,422	0	0	64,422	64,422	0
Apr	43,856	14,225	0	21,723	79,804	0	0	79,804	79,804	0
May	33,465	14,699	0	13,767	61,931	26,672	0	36,247	62,919	-988
Jun	29,158	14,225	0	8,769	52,152	29,286	0	23,850	53,136	-984
Jul	31,882	14,699	0	8,570	55,151	34,949	0	21,925	56,874	-1,723
Aug	29,858	14,699	0	6,653	51,210	28,511	0	21,403	49,914	1,296
Sep	30,755	14,225	0	7,624	52,604	19,811	0	30,769	50,580	2,024
Oct	40,913	14,699	0	14,717	70,329	11,956	0	57,996	69,952	377
Nov	45,362	14,225	0	20,686	80,273	0	0	80,273	80,273	0
Dec	38,853	14,699	0	20,772	74,324	0	0	74,324	74,324	0
Annual	410,555	173,543	0	168,614	752,712	151,185	0	601,524	752,709	3

Table 274 East Pit Water Balance for Year 24

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,991	14,699	0	16,270	60,960	0	0	60,960	60,960	0
Feb	22,413	13,276	0	12,159	47,848	0	0	47,849	47,849	-1
Mar	33,949	14,699	0	16,816	65,464	0	0	65,463	65,463	1
Apr	44,837	14,225	0	22,209	81,271	0	0	81,271	81,271	0
May	32,940	14,699	0	13,549	61,188	26,672	0	35,585	62,257	-1,069
Jun	29,423	14,225	0	8,847	52,495	29,286	0	24,189	53,475	-980
Jul	31,590	14,699	0	8,490	54,779	34,949	0	21,607	56,556	-1,777
Aug	30,072	14,699	0	6,700	51,471	28,511	0	21,451	49,962	1,509
Sep	30,888	14,225	0	7,659	52,772	19,811	0	31,043	50,854	1,918
Oct	39,994	14,699	0	14,386	69,079	11,956	0	56,721	68,677	402
Nov	45,446	14,225	0	20,724	80,395	0	0	80,394	80,394	1
Dec	38,727	14,699	0	20,705	74,131	0	0	74,131	74,131	0
Annual	410,270	173,069	0	168,514	751,853	151,185	0	600,664	751,849	4

Table 275 East Pit Water Balance for Year 25

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	30,023	14,699	0	16,288	61,010	0	0	61,010	61,010	0
Feb	22,010	13,276	0	11,940	47,226	0	0	47,227	47,227	-1
Mar	34,265	14,699	0	16,972	65,936	0	0	65,936	65,936	0
Apr	44,663	14,225	0	22,123	81,011	0	0	81,010	81,010	1
May	33,206	14,699	0	13,660	61,565	26,672	0	35,951	62,623	-1,058
Jun	29,269	14,225	0	8,799	52,293	29,286	0	24,118	53,404	-1,111
Jul	32,383	14,699	0	8,705	55,787	34,949	0	22,458	57,407	-1,620
Aug	29,857	14,699	0	6,652	51,208	28,511	0	21,145	49,656	1,552
Sep	31,095	14,225	0	7,710	53,030	19,811	0	31,353	51,164	1,866
Oct	40,313	14,699	0	14,501	69,513	11,956	0	57,184	69,140	373
Nov	45,867	14,225	0	20,916	81,008	0	0	81,008	81,008	0
Dec	38,624	14,699	0	20,650	73,973	0	0	73,972	73,972	1
Annual	411,575	173,069	0	168,916	753,560	151,185	0	602,372	753,557	3

Table 276 East Pit Water Balance for Year 26

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	30,088	14,699	0	16,323	61,110	0	0	61,109	61,109	1
Feb	22,256	13,276	0	12,074	47,606	0	0	47,606	47,606	0
Mar	33,282	14,699	0	16,486	64,467	0	0	64,466	64,466	1
Apr	45,579	14,225	0	22,577	82,381	0	0	82,381	82,381	0
May	32,683	14,699	0	13,442	60,824	26,672	0	35,348	62,020	-1,196
Jun	29,051	14,225	0	8,734	52,010	29,286	0	23,615	52,901	-891
Jul	31,794	14,699	0	8,542	55,035	34,949	0	21,716	56,665	-1,630
Aug	29,590	14,699	0	6,591	50,880	28,511	0	20,881	49,392	1,488
Sep	31,414	14,225	0	7,790	53,429	19,811	0	31,755	51,566	1,863
Oct	39,981	14,699	0	14,381	69,061	11,956	0	56,739	68,695	366
Nov	45,268	14,225	0	20,643	80,136	0	0	80,135	80,135	1
Dec	38,527	14,699	0	20,598	73,824	0	0	73,824	73,824	0
Annual	409,513	173,069	0	168,181	750,763	151,185	0	599,575	750,760	3

Table 277 East Pit Water Balance for Year 27

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,558	14,699	0	16,035	60,292	0	0	60,291	60,291	1
Feb	23,530	13,750	0	12,765	50,045	0	0	50,046	50,046	-1
Mar	33,587	14,699	0	16,637	64,923	0	0	64,922	64,922	1
Apr	43,620	14,225	0	21,606	79,451	0	0	79,451	79,451	0
May	33,509	14,699	0	13,785	61,993	26,672	0	36,333	63,005	-1,012
Jun	29,963	14,225	0	9,012	53,200	29,286	0	24,855	54,141	-941
Jul	31,551	14,699	0	8,478	54,728	34,949	0	21,552	56,501	-1,773
Aug	30,614	14,699	0	6,822	52,135	28,511	0	22,174	50,685	1,450
Sep	30,110	14,225	0	7,463	51,798	19,811	0	30,105	49,916	1,882
Oct	40,679	14,699	0	14,632	70,010	11,956	0	57,658	69,614	396
Nov	45,220	14,225	0	20,621	80,066	0	0	80,066	80,066	0
Dec	38,170	14,699	0	20,407	73,276	0	0	73,276	73,276	0
Annual	410,111	173,543	0	168,263	751,917	151,185	0	600,729	751,914	3

Table 278 East Pit Water Balance for Year 28

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,862	14,699	0	16,200	60,761	0	0	60,761	60,761	0
Feb	22,457	13,276	0	12,183	47,916	0	0	47,917	47,917	-1
Mar	33,718	14,699	0	16,702	65,119	0	0	65,119	65,119	0
Apr	44,702	14,225	0	22,142	81,069	0	0	81,068	81,068	1
May	32,761	14,699	0	13,475	60,935	26,672	0	35,310	61,982	-1,047
Jun	29,430	14,225	0	8,848	52,503	29,286	0	24,229	53,515	-1,012
Jul	31,870	14,699	0	8,562	55,131	34,949	0	21,938	56,887	-1,756
Aug	30,428	14,699	0	6,780	51,907	28,511	0	21,807	50,318	1,589
Sep	30,861	14,225	0	7,652	52,738	19,811	0	31,080	50,891	1,847
Oct	40,124	14,699	0	14,432	69,255	11,956	0	56,920	68,876	379
Nov	45,510	14,225	0	20,754	80,489	0	0	80,488	80,488	1
Dec	38,133	14,699	0	20,387	73,219	0	0	73,219	73,219	0
Annual	409,856	173,069	0	168,117	751,042	151,185	0	599,856	751,041	1

Table 279 East Pit Water Balance for Year 29

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,921	14,699	0	16,232	60,852	0	0	60,851	60,851	1
Feb	21,831	13,276	0	11,843	46,950	0	0	46,951	46,951	-1
Mar	33,473	14,699	0	16,580	64,752	0	0	64,752	64,752	0
Apr	44,838	14,225	0	22,210	81,273	0	0	81,272	81,272	1
May	32,466	14,699	0	13,353	60,518	26,672	0	34,912	61,584	-1,066
Jun	29,476	14,225	0	8,862	52,563	29,286	0	24,241	53,527	-964
Jul	31,439	14,699	0	8,448	54,586	34,949	0	21,454	56,403	-1,817
Aug	29,908	14,699	0	6,663	51,270	28,511	0	21,139	49,650	1,620
Sep	31,367	14,225	0	7,779	53,371	19,811	0	31,708	51,519	1,852
Oct	40,628	14,699	0	14,614	69,941	11,956	0	57,606	69,562	379
Nov	45,572	14,225	0	20,782	80,579	0	0	80,579	80,579	0
Dec	38,341	14,699	0	20,499	73,539	0	0	73,538	73,538	1
Annual	409,260	173,069	0	167,865	750,194	151,185	0	599,003	750,188	6

Table 280 East Pit Water Balance for Year 30

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,798	14,699	0	16,165	60,662	0	0	60,662	60,662	0
Feb	22,280	13,276	0	12,087	47,643	0	0	47,643	47,643	0
Mar	33,751	14,699	0	16,718	65,168	0	0	65,168	65,168	0
Apr	45,795	14,225	0	22,684	82,704	0	0	82,703	82,703	1
May	32,641	14,699	0	13,426	60,766	26,672	0	35,247	61,919	-1,153
Jun	29,591	14,225	0	8,897	52,713	29,286	0	24,329	53,615	-902
Jul	32,192	14,699	0	8,652	55,543	34,949	0	22,237	57,186	-1,643
Aug	29,463	14,699	0	6,562	50,724	28,511	0	20,738	49,249	1,475
Sep	30,948	14,225	0	7,674	52,847	19,811	0	31,164	50,975	1,872
Oct	40,428	14,699	0	14,542	69,669	11,956	0	57,359	69,315	354
Nov	45,829	14,225	0	20,899	80,953	0	0	80,953	80,953	0
Dec	38,107	14,699	0	20,373	73,179	0	0	73,179	73,179	0
Annual	410,823	173,069	0	168,679	752,571	151,185	0	601,382	752,567	4

Table 281 East Pit Water Balance for Year 31

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,813	14,699	0	16,174	60,686	0	0	60,686	60,686	0
Feb	23,622	13,750	0	12,815	50,187	0	0	50,188	50,188	-1
Mar	33,974	14,699	0	16,828	65,501	0	0	65,501	65,501	0
Apr	43,960	14,225	0	21,775	79,960	0	0	79,960	79,960	0
May	33,374	14,699	0	13,729	61,802	26,672	0	36,134	62,806	-1,004
Jun	29,363	14,225	0	8,829	52,417	29,286	0	24,108	53,394	-977
Jul	31,475	14,699	0	8,458	54,632	34,949	0	21,528	56,477	-1,845
Aug	30,043	14,699	0	6,692	51,434	28,511	0	21,371	49,882	1,552
Sep	30,816	14,225	0	7,640	52,681	19,811	0	30,963	50,774	1,907
Oct	40,763	14,699	0	14,664	70,126	11,956	0	57,800	69,756	370
Nov	45,397	14,225	0	20,702	80,324	0	0	80,323	80,323	1
Dec	37,872	14,699	0	20,248	72,819	0	0	72,818	72,818	1
Annual	410,472	173,543	0	168,554	752,569	151,185	0	601,380	752,565	4

Table 282 East Pit Water Balance for Year 32

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,734	14,699	0	16,131	60,564	0	0	60,564	60,564	0
Feb	22,784	13,276	0	12,360	48,420	0	0	48,421	48,421	-1
Mar	33,411	14,699	0	16,549	64,659	0	0	64,659	64,659	0
Apr	44,691	14,225	0	22,137	81,053	0	0	81,052	81,052	1
May	33,588	14,699	0	13,819	62,106	26,672	0	36,461	63,133	-1,027
Jun	29,339	14,225	0	8,821	52,385	29,286	0	24,121	53,407	-1,022
Jul	31,525	14,699	0	8,470	54,694	34,949	0	21,571	56,520	-1,826
Aug	30,126	14,699	0	6,714	51,539	28,511	0	21,501	50,012	1,527
Sep	30,585	14,225	0	7,582	52,392	19,811	0	30,615	50,426	1,966
Oct	41,220	14,699	0	14,828	70,747	11,956	0	58,407	70,363	384
Nov	45,278	14,225	0	20,648	80,151	0	0	80,150	80,150	1
Dec	39,210	14,699	0	20,963	74,872	0	0	74,871	74,871	1
Annual	411,491	173,069	0	169,022	753,582	151,185	0	602,393	753,578	4

Table 283 East Pit Water Balance for Year 33

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,628	14,699	0	16,073	60,400	0	0	60,400	60,400	0
Feb	22,190	13,276	0	12,038	47,504	0	0	47,504	47,504	0
Mar	34,017	14,699	0	16,849	65,565	0	0	65,565	65,565	0
Apr	44,313	14,225	0	21,950	80,488	0	0	80,487	80,487	1
May	32,617	14,699	0	13,416	60,732	26,672	0	35,149	61,821	-1,089
Jun	28,868	14,225	0	8,676	51,769	29,286	0	23,591	52,877	-1,108
Jul	31,660	14,699	0	8,507	54,866	34,949	0	21,485	56,434	-1,568
Aug	30,091	14,699	0	6,705	51,495	28,511	0	21,480	49,991	1,504
Sep	31,467	14,225	0	7,802	53,494	19,811	0	31,789	51,600	1,894
Oct	40,567	14,699	0	14,592	69,858	11,956	0	57,532	69,488	370
Nov	45,732	14,225	0	20,855	80,812	0	0	80,811	80,811	1
Dec	38,472	14,699	0	20,569	73,740	0	0	73,739	73,739	1
Annual	409,622	173,069	0	168,032	750,723	151,185	0	599,532	750,717	6

Table 284 East Pit Water Balance for Year 34

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,962	14,699	0	16,254	60,915	0	0	60,915	60,915	0
Feb	21,870	13,276	0	11,864	47,010	0	0	47,010	47,010	0
Mar	33,726	14,699	0	16,705	65,130	0	0	65,130	65,130	0
Apr	44,998	14,225	0	22,289	81,512	0	0	81,511	81,511	1
May	32,429	14,699	0	13,338	60,466	26,672	0	34,956	61,628	-1,162
Jun	29,199	14,225	0	8,777	52,201	29,286	0	23,831	53,117	-916
Jul	31,919	14,699	0	8,576	55,194	34,949	0	21,944	56,893	-1,699
Aug	29,495	14,699	0	6,569	50,763	28,511	0	20,675	49,186	1,577
Sep	31,218	14,225	0	7,742	53,185	19,811	0	31,521	51,332	1,853
Oct	40,732	14,699	0	14,652	70,083	11,956	0	57,780	69,736	347
Nov	45,254	14,225	0	20,637	80,116	0	0	80,115	80,115	1
Dec	38,289	14,699	0	20,471	73,459	0	0	73,458	73,458	1
Annual	409,091	173,069	0	167,874	750,034	151,185	0	598,846	750,031	3

Table 285 East Pit Water Balance for Year 35

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	30,066	14,699	0	16,311	61,076	0	0	61,076	61,076	0
Feb	23,178	13,750	0	12,574	49,502	0	0	49,503	49,503	-1
Mar	33,736	14,699	0	16,710	65,145	0	0	65,145	65,145	0
Apr	43,836	14,225	0	21,713	79,774	0	0	79,774	79,774	0
May	33,408	14,699	0	13,743	61,850	26,672	0	36,177	62,849	-999
Jun	29,153	14,225	0	8,766	52,144	29,286	0	23,846	53,132	-988
Jul	31,664	14,699	0	8,509	54,872	34,949	0	21,635	56,584	-1,712
Aug	29,857	14,699	0	6,651	51,207	28,511	0	21,351	49,862	1,345
Sep	30,755	14,225	0	7,624	52,604	19,811	0	30,802	50,613	1,991
Oct	41,455	14,699	0	14,913	71,067	11,956	0	58,746	70,702	365
Nov	44,890	14,225	0	20,471	79,586	0	0	79,586	79,586	0
Dec	38,635	14,699	0	20,656	73,990	0	0	73,990	73,990	0
Annual	410,633	173,543	0	168,641	752,817	151,185	0	601,631	752,816	1

Table 286 East Pit Water Balance for Year 36

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,686	14,699	0	16,105	60,490	0	0	60,490	60,490	0
Feb	22,299	13,276	0	12,097	47,672	0	0	47,672	47,672	0
Mar	34,385	14,699	0	17,032	66,116	0	0	66,115	66,115	1
Apr	44,081	14,225	0	21,835	80,141	0	0	80,141	80,141	0
May	33,586	14,699	0	13,817	62,102	26,672	0	36,479	63,151	-1,049
Jun	29,409	14,225	0	8,843	52,477	29,286	0	24,157	53,443	-966
Jul	31,660	14,699	0	8,508	54,867	34,949	0	21,717	56,666	-1,799
Aug	30,591	14,699	0	6,819	52,109	28,511	0	22,089	50,600	1,509
Sep	30,670	14,225	0	7,604	52,499	19,811	0	30,768	50,579	1,920
Oct	40,166	14,699	0	14,448	69,313	11,956	0	56,970	68,926	387
Nov	45,750	14,225	0	20,863	80,838	0	0	80,837	80,837	1
Dec	38,465	14,699	0	20,565	73,729	0	0	73,729	73,729	0
Annual	410,748	173,069	0	168,536	752,353	151,185	0	601,164	752,349	4

Table 287 East Pit Water Balance for Year 37

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	30,177	14,699	0	16,371	61,247	0	0	61,247	61,247	0
Feb	22,158	13,276	0	12,021	47,455	0	0	47,456	47,456	-1
Mar	33,432	14,699	0	16,560	64,691	0	0	64,691	64,691	0
Apr	44,149	14,225	0	21,868	80,242	0	0	80,241	80,241	1
May	32,966	14,699	0	13,562	61,227	26,672	0	35,639	62,311	-1,084
Jun	29,484	14,225	0	8,865	52,574	29,286	0	24,269	53,555	-981
Jul	31,987	14,699	0	8,596	55,282	34,949	0	22,046	56,995	-1,713
Aug	29,755	14,699	0	6,629	51,083	28,511	0	21,038	49,549	1,534
Sep	30,849	14,225	0	7,648	52,722	19,811	0	31,039	50,850	1,872
Oct	40,143	14,699	0	14,439	69,281	11,956	0	56,952	68,908	373
Nov	45,373	14,225	0	20,691	80,289	0	0	80,288	80,288	1
Dec	38,812	14,699	0	20,750	74,261	0	0	74,261	74,261	0
Annual	409,285	173,069	0	168,000	750,354	151,185	0	599,167	750,352	2

Table 288 East Pit Water Balance for Year 38

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,768	14,699	0	16,149	60,616	0	0	60,615	60,615	1
Feb	22,322	13,276	0	12,110	47,708	0	0	47,708	47,708	0
Mar	33,351	14,699	0	16,520	64,570	0	0	64,570	64,570	0
Apr	45,149	14,225	0	22,364	81,738	0	0	81,737	81,737	1
May	32,943	14,699	0	13,550	61,192	26,672	0	35,666	62,338	-1,146
Jun	28,957	14,225	0	8,704	51,886	29,286	0	23,491	52,777	-891
Jul	32,328	14,699	0	8,688	55,715	34,949	0	22,434	57,383	-1,668
Aug	29,482	14,699	0	6,566	50,747	28,511	0	20,749	49,260	1,487
Sep	33,070	14,225	0	8,206	55,501	19,811	0	33,817	53,628	1,873
Oct	40,392	14,699	0	14,529	69,620	11,956	0	57,317	69,273	347
Nov	45,279	14,225	0	20,648	80,152	0	0	80,152	80,152	0
Dec	38,686	14,699	0	20,683	74,068	0	0	74,067	74,067	1
Annual	411,727	173,069	0	168,717	753,513	151,185	0	602,323	753,508	5

Table 289 East Pit Water Balance for Year 39

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	30,229	14,699	0	16,399	61,327	0	0	61,327	61,327	0
Feb	23,275	13,750	0	12,627	49,652	0	0	49,652	49,652	0
Mar	33,642	14,699	0	16,664	65,005	0	0	65,004	65,004	1
Apr	44,094	14,225	0	21,841	80,160	0	0	80,159	80,159	1
May	33,509	14,699	0	13,784	61,992	26,672	0	36,337	63,009	-1,017
Jun	29,153	14,225	0	8,765	52,143	29,286	0	23,823	53,109	-966
Jul	31,222	14,699	0	8,390	54,311	34,949	0	21,252	56,201	-1,890
Aug	30,168	14,699	0	6,721	51,588	28,511	0	21,494	50,005	1,583
Sep	30,655	14,225	0	7,600	52,480	19,811	0	30,739	50,550	1,930
Oct	40,148	14,699	0	14,441	69,288	11,956	0	56,971	68,927	361
Nov	46,029	14,225	0	20,990	81,244	0	0	81,244	81,244	0
Dec	38,175	14,699	0	20,410	73,284	0	0	73,284	73,284	0
Annual	410,299	173,543	0	168,632	752,474	151,185	0	601,286	752,471	3

Table 290 East Pit Water Balance for Year 40

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,914	14,699	0	16,229	60,842	0	0	60,842	60,842	0
Feb	22,864	13,276	0	12,404	48,544	0	0	48,544	48,544	0
Mar	33,657	14,699	0	16,671	65,027	0	0	65,026	65,026	1
Apr	44,322	14,225	0	21,954	80,501	0	0	80,500	80,500	1
May	33,473	14,699	0	13,771	61,943	26,672	0	36,293	62,965	-1,022
Jun	29,176	14,225	0	8,772	52,173	29,286	0	23,881	53,167	-994
Jul	32,478	14,699	0	8,733	55,910	34,949	0	22,872	57,821	-1,911
Aug	30,056	14,699	0	6,697	51,452	28,511	0	21,275	49,786	1,666
Sep	30,927	14,225	0	7,668	52,820	19,811	0	31,144	50,955	1,865
Oct	40,523	14,699	0	14,576	69,798	11,956	0	57,447	69,403	395
Nov	45,275	14,225	0	20,647	80,147	0	0	80,147	80,147	0
Dec	38,304	14,699	0	20,479	73,482	0	0	73,482	73,482	0
Annual	410,969	173,069	0	168,601	752,639	151,185	0	601,453	752,638	1

Table 291 East Pit Water Balance for Year 41

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,944	14,699	0	16,245	60,888	0	0	60,887	60,887	1
Feb	22,602	13,276	0	12,262	48,140	0	0	48,141	48,141	-1
Mar	34,115	14,699	0	16,898	65,712	0	0	65,712	65,712	0
Apr	44,531	14,225	0	22,057	80,813	0	0	80,813	80,813	0
May	32,433	14,699	0	13,340	60,472	26,672	0	34,892	61,564	-1,092
Jun	29,190	14,225	0	8,776	52,191	29,286	0	23,864	53,150	-959
Jul	32,320	14,699	0	8,688	55,707	34,949	0	22,543	57,492	-1,785
Aug	29,931	14,699	0	6,668	51,298	28,511	0	21,223	49,734	1,564
Sep	30,688	14,225	0	7,608	52,521	19,811	0	30,823	50,634	1,887
Oct	40,622	14,699	0	14,612	69,933	11,956	0	57,593	69,549	384
Nov	45,302	14,225	0	20,659	80,186	0	0	80,185	80,185	1
Dec	38,504	14,699	0	20,586	73,789	0	0	73,789	73,789	0
Annual	410,182	173,069	0	168,399	751,650	151,185	0	600,465	751,650	0

Table 292 East Pit Water Balance for Year 42

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	30,209	14,699	0	16,388	61,296	0	0	61,296	61,296	0
Feb	21,834	13,276	0	11,845	46,955	0	0	46,955	46,955	0
Mar	33,453	14,699	0	16,570	64,722	0	0	64,722	64,722	0
Apr	45,036	14,225	0	22,308	81,569	0	0	81,568	81,568	1
May	32,760	14,699	0	13,475	60,934	26,672	0	35,397	62,069	-1,135
Jun	29,246	14,225	0	8,793	52,264	29,286	0	23,837	53,123	-859
Jul	32,259	14,699	0	8,670	55,628	34,949	0	22,357	57,306	-1,678
Aug	29,590	14,699	0	6,591	50,880	28,511	0	20,906	49,417	1,463
Sep	31,099	14,225	0	7,711	53,035	19,811	0	31,368	51,179	1,856
Oct	41,425	14,699	0	14,902	71,026	11,956	0	58,715	70,671	355
Nov	45,734	14,225	0	20,856	80,815	0	0	80,814	80,814	1
Dec	38,564	14,699	0	20,618	73,881	0	0	73,881	73,881	0
Annual	411,209	173,069	0	168,727	753,005	151,185	0	601,816	753,001	4

Table 293 East Pit Water Balance for Year 43

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,882	14,699	0	16,211	60,792	0	0	60,792	60,792	0
Feb	23,195	13,750	0	12,583	49,528	0	0	49,528	49,528	0
Mar	33,787	14,699	0	16,736	65,222	0	0	65,222	65,222	0
Apr	44,480	14,225	0	22,032	80,737	0	0	80,737	80,737	0
May	33,042	14,699	0	13,590	61,331	26,672	0	35,731	62,403	-1,072
Jun	29,004	14,225	0	8,719	51,948	29,286	0	23,518	52,804	-856
Jul	31,544	14,699	0	8,477	54,720	34,949	0	21,692	56,641	-1,921
Aug	29,915	14,699	0	6,665	51,279	28,511	0	21,290	49,801	1,478
Sep	30,593	14,225	0	7,585	52,403	19,811	0	30,578	50,389	2,014
Oct	40,439	14,699	0	14,547	69,685	11,956	0	57,371	69,327	358
Nov	45,305	14,225	0	20,660	80,190	0	0	80,190	80,190	0
Dec	37,966	14,699	0	20,298	72,963	0	0	72,962	72,962	1
Annual	409,152	173,543	0	168,103	750,798	151,185	0	599,611	750,796	2

Table 294 East Pit Water Balance for Year 44

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,734	14,699	0	16,131	60,564	0	0	60,563	60,563	1
Feb	22,886	13,276	0	12,416	48,578	0	0	48,578	48,578	0
Mar	34,370	14,699	0	17,024	66,093	0	0	66,093	66,093	0
Apr	44,707	14,225	0	22,145	81,077	0	0	81,076	81,076	1
May	32,953	14,699	0	13,555	61,207	26,672	0	35,655	62,327	-1,120
Jun	29,191	14,225	0	8,776	52,192	29,286	0	23,814	53,100	-908
Jul	31,991	14,699	0	8,598	55,288	34,949	0	22,139	57,088	-1,800
Aug	30,278	14,699	0	6,748	51,725	28,511	0	21,654	50,165	1,560
Sep	30,614	14,225	0	7,589	52,428	19,811	0	30,742	50,553	1,875
Oct	40,893	14,699	0	14,710	70,302	11,956	0	57,954	69,910	392
Nov	46,151	14,225	0	21,046	81,422	0	0	81,422	81,422	0
Dec	37,979	14,699	0	20,305	72,983	0	0	72,983	72,983	0
Annual	411,747	173,069	0	169,043	753,859	151,185	0	602,673	753,858	1

Table 295 East Pit Water Balance for Year 45

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,717	14,699	0	16,122	60,538	0	0	60,538	60,538	0
Feb	22,379	13,276	0	12,141	47,796	0	0	47,796	47,796	0
Mar	33,837	14,699	0	16,760	65,296	0	0	65,296	65,296	0
Apr	45,249	14,225	0	22,413	81,887	0	0	81,887	81,887	0
May	32,716	14,699	0	13,458	60,873	26,672	0	35,301	61,973	-1,100
Jun	29,296	14,225	0	8,808	52,329	29,286	0	24,069	53,355	-1,026
Jul	31,502	14,699	0	8,465	54,666	34,949	0	21,597	56,546	-1,880
Aug	30,328	14,699	0	6,759	51,786	28,511	0	21,532	50,043	1,743
Sep	30,920	14,225	0	7,667	52,812	19,811	0	31,111	50,922	1,890
Oct	40,396	14,699	0	14,531	69,626	11,956	0	57,296	69,252	374
Nov	45,176	14,225	0	20,601	80,002	0	0	80,002	80,002	0
Dec	38,653	14,699	0	20,665	74,017	0	0	74,017	74,017	0
Annual	410,169	173,069	0	168,390	751,628	151,185	0	600,442	751,627	1

Table 296 East Pit Water Balance for Year 46

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,284	14,699	0	15,887	59,870	0	0	59,869	59,869	1
Feb	21,739	13,276	0	11,793	46,808	0	0	46,809	46,809	-1
Mar	33,302	14,699	0	16,495	64,496	0	0	64,496	64,496	0
Apr	45,245	14,225	0	22,411	81,881	0	0	81,881	81,881	0
May	32,431	14,699	0	13,338	60,468	26,672	0	34,925	61,597	-1,129
Jun	29,159	14,225	0	8,766	52,150	29,286	0	23,744	53,030	-880
Jul	31,664	14,699	0	8,507	54,870	34,949	0	21,655	56,604	-1,734
Aug	29,710	14,699	0	6,618	51,027	28,511	0	20,964	49,475	1,552
Sep	31,263	14,225	0	7,752	53,240	19,811	0	31,586	51,397	1,843
Oct	40,272	14,699	0	14,486	69,457	11,956	0	57,154	69,110	347
Nov	45,673	14,225	0	20,828	80,726	0	0	80,725	80,725	1
Dec	38,475	14,699	0	20,570	73,744	0	0	73,744	73,744	0
Annual	408,217	173,069	0	167,451	748,737	151,185	0	597,552	748,737	0

Table 297 East Pit Water Balance for Year 47

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,869	14,699	0	16,204	60,772	0	0	60,772	60,772	0
Feb	23,173	13,750	0	12,572	49,495	0	0	49,495	49,495	0
Mar	33,857	14,699	0	16,770	65,326	0	0	65,326	65,326	0
Apr	43,544	14,225	0	21,569	79,338	0	0	79,337	79,337	1
May	33,627	14,699	0	13,833	62,159	26,672	0	36,505	63,177	-1,018
Jun	29,042	14,225	0	8,732	51,999	29,286	0	23,715	53,001	-1,002
Jul	31,375	14,699	0	8,431	54,505	34,949	0	21,385	56,334	-1,829
Aug	30,080	14,699	0	6,702	51,481	28,511	0	21,445	49,956	1,525
Sep	30,806	14,225	0	7,637	52,668	19,811	0	30,888	50,699	1,969
Oct	41,481	14,699	0	14,923	71,103	11,956	0	58,789	70,745	358
Nov	45,347	14,225	0	20,679	80,251	0	0	80,251	80,251	0
Dec	38,343	14,699	0	20,500	73,542	0	0	73,542	73,542	0
Annual	410,544	173,543	0	168,552	752,639	151,185	0	601,450	752,635	4

Table 298 East Pit Water Balance for Year 48

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,651	14,699	0	16,086	60,436	0	0	60,436	60,436	0
Feb	22,983	13,276	0	12,468	48,727	0	0	48,728	48,728	-1
Mar	33,598	14,699	0	16,642	64,939	0	0	64,938	64,938	1
Apr	43,820	14,225	0	21,705	79,750	0	0	79,750	79,750	0
May	32,886	14,699	0	13,526	61,111	26,672	0	35,478	62,150	-1,039
Jun	29,371	14,225	0	8,831	52,427	29,286	0	24,138	53,424	-997
Jul	32,018	14,699	0	8,605	55,322	34,949	0	22,230	57,179	-1,857
Aug	30,457	14,699	0	6,786	51,942	28,511	0	21,770	50,281	1,661
Sep	30,249	14,225	0	7,499	51,973	19,811	0	30,328	50,139	1,834
Oct	41,006	14,699	0	14,751	70,456	11,956	0	58,101	70,057	399
Nov	46,135	14,225	0	21,039	81,399	0	0	81,398	81,398	1
Dec	38,438	14,699	0	20,550	73,687	0	0	73,687	73,687	0
Annual	410,612	173,069	0	168,488	752,169	151,185	0	600,982	752,167	2

Table 299 East Pit Water Balance for Table 49

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	30,165	14,699	0	16,365	61,229	0	0	61,229	61,229	0
Feb	21,913	13,276	0	11,888	47,077	0	0	47,077	47,077	0
Mar	33,501	14,699	0	16,594	64,794	0	0	64,794	64,794	0
Apr	45,213	14,225	0	22,395	81,833	0	0	81,833	81,833	0
May	33,579	14,699	0	13,816	62,094	26,672	0	36,518	63,190	-1,096
Jun	29,407	14,225	0	8,844	52,476	29,286	0	24,136	53,422	-946
Jul	32,351	14,699	0	8,699	55,749	34,949	0	22,740	57,689	-1,940
Aug	29,727	14,699	0	6,623	51,049	28,511	0	20,876	49,387	1,662
Sep	30,510	14,225	0	7,565	52,300	19,811	0	30,559	50,370	1,930
Oct	39,810	14,699	0	14,319	68,828	11,956	0	56,480	68,436	392
Nov	45,845	14,225	0	20,907	80,977	0	0	80,976	80,976	1
Dec	38,244	14,699	0	20,447	73,390	0	0	73,390	73,390	0
Annual	410,265	173,069	0	168,462	751,796	151,185	0	600,608	751,793	3

Table 300 East Pit Water Balance for Table 50

Month	Inflow Summary (m3)					Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	TMF Discharge	East Pond Discharge	Total Inflows	Evaporation	Dewatering to East Pond	Discharge to Lake	Total Outflow	
Jan	29,719	14,699	0	16,123	60,541	0	0	60,540	60,540	1
Feb	21,949	13,276	0	11,907	47,132	0	0	47,133	47,133	-1
Mar	33,502	14,699	0	16,595	64,796	0	0	64,795	64,795	1
Apr	44,642	14,225	0	22,112	80,979	0	0	80,979	80,979	0
May	32,453	14,699	0	13,348	60,500	26,672	0	34,953	61,625	-1,125
Jun	28,995	14,225	0	8,715	51,935	29,286	0	23,652	52,938	-1,003
Jul	31,448	14,699	0	8,448	54,595	34,949	0	21,471	56,420	-1,825
Aug	29,769	14,699	0	6,633	51,101	28,511	0	20,906	49,417	1,684
Sep	31,142	14,225	0	7,722	53,089	19,811	0	31,381	51,192	1,897
Oct	40,094	14,699	0	14,421	69,214	11,956	0	56,884	68,840	374
Nov	45,967	14,225	0	20,962	81,154	0	0	81,154	81,154	0
Dec	38,208	14,699	0	20,428	73,335	0	0	73,335	73,335	0
Annual	407,888	173,069	0	167,414	748,371	151,185	0	597,183	748,368	3

Table 301 West Pit Water Balance for Year 1

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	35,200	298	0	35,498	6,212	28,301	0	34,513	985
Feb	25,929	799	0	26,728	4,576	22,181	0	26,757	-29
Mar	39,102	1,471	0	40,573	6,900	32,962	0	39,862	711
Apr	52,603	2,010	0	54,613	9,283	45,794	0	55,077	-464
May	38,365	2,684	0	41,049	6,770	35,029	0	41,799	-750
Jun	34,228	3,184	0	37,412	6,040	30,819	0	36,859	553
Jul	37,081	3,896	0	40,977	6,544	34,225	0	40,769	208
Aug	35,159	4,513	0	39,672	6,204	33,346	0	39,550	122
Sep	36,676	4,954	0	41,630	6,472	35,488	0	41,960	-330
Oct	46,706	5,725	0	52,431	8,242	44,170	0	52,412	19
Nov	53,682	6,127	0	59,809	9,473	49,376	0	58,849	960
Dec	44,485	6,938	0	51,423	7,850	44,694	0	52,544	-1,121
Annual	479,216	42,599	0	521,815	84,566	436,385	0	520,951	864

Table 302 West Pit Water Balance for Year 2

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	35,184	7,554	0	42,738	6,209	36,222	0	42,431	307
Feb	25,472	7,353	0	32,825	4,495	28,553	0	33,048	-223
Mar	39,063	8,727	0	47,790	6,894	39,881	0	46,775	1,015
Apr	53,106	9,032	0	62,138	9,372	53,121	0	62,493	-355
May	38,329	9,940	0	48,269	6,764	42,376	0	49,140	-871
Jun	34,445	10,206	0	44,651	6,078	38,096	0	44,174	477
Jul	36,874	11,152	0	48,026	6,507	41,299	0	47,806	220
Aug	35,351	11,768	0	47,119	6,238	40,695	0	46,933	186
Sep	36,314	11,976	0	48,290	6,408	42,025	0	48,433	-143
Oct	46,910	12,981	0	59,891	8,278	51,850	0	60,128	-237
Nov	53,775	13,149	0	66,924	9,490	55,820	0	65,310	1,614
Dec	44,671	14,194	0	58,865	7,883	52,636	0	60,519	-1,654
Annual	479,494	128,032	0	607,526	84,616	522,574	0	607,190	336

Table 303 West Pit Water Balance for Year 3

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575
Feb	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575
Mar	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575
Apr	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575
May	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575
Jun	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575
Jul	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575
Aug	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575
Sep	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575
Oct	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575
Nov	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575
Dec	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575
Annual	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575	34,575

Table 304 West Pit Water Balance for Year 4

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	34,909	22,086	0	56,995	6,160	50,449	0	56,609	386
Feb	26,039	20,478	0	46,517	4,595	41,814	0	46,409	108
Mar	39,192	23,259	0	62,451	6,916	54,634	0	61,550	901
Apr	52,269	23,095	0	75,364	9,224	67,005	0	76,229	-865
May	38,897	24,471	0	63,368	6,864	57,029	0	63,893	-525
Jun	33,991	24,269	0	58,260	5,998	51,835	0	57,833	427
Jul	37,310	25,684	0	62,994	6,584	56,037	0	62,621	373
Aug	34,607	26,300	0	60,907	6,107	55,060	0	61,167	-260
Sep	35,964	26,038	0	62,002	6,347	55,853	0	62,200	-198
Oct	47,477	27,513	0	74,990	8,378	66,581	0	74,959	31
Nov	53,034	27,212	0	80,246	9,359	70,038	0	79,397	849
Dec	45,213	28,725	0	73,938	7,979	66,680	0	74,659	-721
Annual	478,902	299,130	0	778,032	84,511	693,015	0	777,526	506

Table 305 West Pit Water Balance for Year 5

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	34,938	29,342	0	64,280	6,166	58,001	0	64,167	113
Feb	25,610	27,032	0	52,642	4,519	48,162	0	52,681	-39
Mar	39,072	30,514	0	69,586	6,895	61,706	0	68,601	985
Apr	52,270	30,117	0	82,387	9,224	73,856	0	83,080	-693
May	37,814	31,727	0	69,541	6,673	63,532	0	70,205	-664
Jun	34,175	31,290	0	65,465	6,031	58,890	0	64,921	544
Jul	37,639	32,940	0	70,579	6,642	63,702	0	70,344	235
Aug	34,821	33,556	0	68,377	6,145	62,150	0	68,295	82
Sep	36,841	33,060	0	69,901	6,501	63,774	0	70,275	-374
Oct	47,557	34,769	0	82,326	8,392	73,855	0	82,247	79
Nov	53,756	34,234	0	87,990	9,486	77,512	0	86,998	992
Dec	45,006	35,981	0	80,987	7,942	74,285	0	82,227	-1,240
Annual	479,499	384,562	0	864,061	84,616	779,425	0	864,041	20

Table 306 West Pit Water Balance for Year 6

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	35,851	36,598	0	72,449	6,327	65,720	0	72,047	402
Feb	25,760	33,586	0	59,346	4,546	55,046	0	59,592	-246
Mar	38,423	37,770	0	76,193	6,781	68,384	0	75,165	1,028
Apr	52,719	37,139	0	89,858	9,303	80,937	0	90,240	-382
May	38,331	38,983	0	77,314	6,764	71,527	0	78,291	-977
Jun	33,875	38,312	0	72,187	5,978	65,579	0	71,557	630
Jul	37,084	40,196	0	77,280	6,544	70,546	0	77,090	190
Aug	35,604	40,812	0	76,416	6,283	69,965	0	76,248	168
Sep	36,838	40,082	0	76,920	6,501	70,502	0	77,003	-83
Oct	46,401	42,025	0	88,426	8,188	80,577	0	88,765	-339
Nov	53,796	41,256	0	95,052	9,493	83,867	0	93,360	1,692
Dec	44,460	43,237	0	87,697	7,846	81,535	0	89,381	-1,684
Annual	479,142	469,996	0	949,138	84,554	864,185	0	948,739	399

Table 307 West Pit Water Balance for Year 7

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	35,032	43,853	0	78,885	6,182	72,653	0	78,835	50
Feb	27,061	41,582	0	68,643	4,775	63,549	0	68,324	319
Mar	39,151	45,046	0	84,197	6,909	76,576	0	83,485	712
Apr	52,201	44,180	0	96,381	9,212	88,103	0	97,315	-934
May	38,382	46,259	0	84,641	6,773	77,978	0	84,751	-110
Jun	34,066	45,353	0	79,419	6,012	73,096	0	79,108	311
Jul	38,114	47,471	0	85,585	6,726	78,676	0	85,402	183
Aug	35,643	48,088	0	83,731	6,290	77,335	0	83,625	106
Sep	35,802	47,123	0	82,925	6,318	77,404	0	83,722	-797
Oct	47,838	49,300	0	97,138	8,442	88,045	0	96,487	651
Nov	52,328	48,297	0	100,625	9,234	91,195	0	100,429	196
Dec	45,481	50,513	0	95,994	8,026	88,468	0	96,494	-500
Annual	481,099	557,065	0	1,038,164	84,899	953,078	0	1,037,977	187

Table 308 West Pit Water Balance for Year 8

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	34,391	51,129	0	85,520	6,069	79,260	0	85,329	191
Feb	26,283	46,711	0	72,994	4,638	68,225	0	72,863	131
Mar	39,177	52,302	0	91,479	6,914	83,679	0	90,593	886
Apr	51,750	51,202	0	102,952	9,132	94,714	0	103,846	-894
May	37,976	53,515	0	91,491	6,702	85,283	0	91,985	-494
Jun	34,328	52,375	0	86,703	6,058	80,212	0	86,270	433
Jul	37,380	54,727	0	92,107	6,596	85,163	0	91,759	348
Aug	35,342	55,344	0	90,686	6,237	84,707	0	90,944	-258
Sep	35,627	54,145	0	89,772	6,287	83,701	0	89,988	-216
Oct	47,046	56,556	0	103,602	8,302	95,191	0	103,493	109
Nov	53,238	55,319	0	108,557	9,395	98,370	0	107,765	792
Dec	44,642	57,769	0	102,411	7,878	95,216	0	103,094	-683
Annual	477,180	641,094	0	1,118,274	84,208	1,033,721	0	1,117,929	345

Table 309 West Pit Water Balance for Year 9

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	34,647	58,211	0	92,858	6,114	86,634	0	92,748	110
Feb	25,475	52,799	0	78,274	4,496	73,850	0	78,346	-72
Mar	39,151	58,701	0	97,852	6,909	89,943	0	96,852	1,000
Apr	51,378	57,053	0	108,431	9,067	100,162	0	109,229	-798
May	38,283	59,208	0	97,491	6,756	91,363	0	98,119	-628
Jun	34,598	57,543	0	92,141	6,106	85,351	0	91,457	684
Jul	37,266	59,714	0	96,980	6,576	90,437	0	97,013	-33
Aug	34,354	59,971	0	94,325	6,062	88,051	0	94,113	212
Sep	36,391	58,282	0	94,673	6,422	88,666	0	95,088	-415
Oct	47,435	60,478	0	107,913	8,371	99,509	0	107,880	33
Nov	52,865	58,772	0	111,637	9,329	101,116	0	110,445	1,192
Dec	45,203	60,984	0	106,187	7,977	99,501	0	107,478	-1,291
Annual	477,046	701,716	0	1,178,762	84,185	1,094,583	0	1,178,768	-6

Table 310 West Pit Water Balance for Year 10

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	34,913	61,241	0	96,154	6,161	89,749	0	95,910	244
Feb	25,117	55,536	0	80,653	4,432	76,454	0	80,886	-233
Mar	38,732	61,731	0	100,463	6,835	92,610	0	99,445	1,018
Apr	52,525	59,985	0	112,510	9,269	103,585	0	112,854	-344
May	39,788	62,237	0	102,025	7,021	96,071	0	103,092	-1,067
Jun	33,980	60,475	0	94,455	5,996	87,785	0	93,781	674
Jul	36,843	62,744	0	99,587	6,502	92,908	0	99,410	177
Aug	35,276	63,001	0	98,277	6,225	91,934	0	98,159	118
Sep	36,685	61,214	0	97,899	6,474	91,492	0	97,966	-67
Oct	47,315	63,507	0	110,822	8,350	102,826	0	111,176	-354
Nov	53,216	61,704	0	114,920	9,391	103,930	0	113,321	1,599
Dec	45,015	64,014	0	109,029	7,944	102,699	0	110,643	-1,614
Annual	479,405	737,389	0	1,216,794	84,600	1,132,043	0	1,216,643	151

Table 311 West Pit Water Balance for Year 11

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	34,734	64,271	0	99,005	6,130	92,994	0	99,124	-119
Feb	27,309	60,357	0	87,666	4,819	82,168	0	86,987	679
Mar	39,204	64,769	0	103,973	6,918	96,635	0	103,553	420
Apr	51,375	62,925	0	114,300	9,066	106,088	0	115,154	-854
May	38,564	65,275	0	103,839	6,805	97,085	0	103,890	-51
Jun	34,308	63,415	0	97,723	6,054	91,571	0	97,625	98
Jul	36,915	65,782	0	102,697	6,514	95,915	0	102,429	268
Aug	36,137	66,039	0	102,176	6,377	95,719	0	102,096	80
Sep	35,306	64,154	0	99,460	6,230	93,974	0	100,204	-744
Oct	47,260	66,545	0	113,805	8,340	104,874	0	113,214	591
Nov	53,817	64,644	0	118,461	9,497	108,941	0	118,438	23
Dec	44,866	67,052	0	111,918	7,917	104,487	0	112,404	-486
Annual	479,795	775,228	0	1,255,023	84,667	1,170,451	0	1,255,118	-95

Table 312 West Pit Water Balance for Year 12

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,100	67,090	32,892	141,082	0	0	0	0	141,082
Feb	30,566	60,436	24,462	115,464	0	0	0	0	115,464
Mar	46,070	66,732	35,272	148,074	0	0	0	0	148,074
Apr	61,282	64,401	46,918	172,601	0	0	0	0	172,601
May	44,661	66,363	31,193	142,217	36,661	0	0	36,661	105,556
Jun	40,318	64,043	24,857	129,218	40,254	0	0	40,254	88,964
Jul	43,937	65,993	26,039	135,969	48,039	0	0	48,039	87,930
Aug	40,906	65,805	22,905	129,616	39,190	0	0	39,190	90,426
Sep	42,430	63,503	24,614	130,547	27,230	0	0	27,230	103,317
Oct	55,389	65,435	36,774	157,598	16,434	0	0	16,434	141,164
Nov	63,964	63,145	47,124	174,233	0	0	0	0	174,233
Dec	52,861	65,065	41,999	159,925	0	0	0	0	159,925
Annual	563,484	778,011	395,049	1,736,544	207,808	0	0	207,808	1,528,736

Table 313 West Pit Water Balance for Year 13

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	40,222	64,877	32,189	137,288	0	0	0	0	137,288
Feb	30,441	58,437	24,362	113,240	0	0	0	0	113,240
Mar	45,673	64,520	34,968	145,161	0	0	0	0	145,161
Apr	60,699	62,259	46,472	169,430	0	0	0	0	169,430
May	44,948	64,150	31,392	140,490	36,661	0	0	36,661	103,829
Jun	40,952	61,902	25,249	128,103	40,254	0	0	40,254	87,849
Jul	43,781	63,780	25,945	133,506	48,039	0	0	48,039	85,467
Aug	41,293	63,592	23,124	128,009	39,190	0	0	39,190	88,819
Sep	42,924	61,362	24,899	129,185	27,230	0	0	27,230	101,955
Oct	55,483	63,222	36,839	155,544	16,434	0	0	16,434	139,110
Nov	62,529	61,004	46,067	169,600	0	0	0	0	169,600
Dec	52,639	62,853	41,823	157,315	0	0	0	0	157,315
Annual	561,584	751,958	393,329	1,706,871	207,808	0	0	207,808	1,499,063

Table 314 West Pit Water Balance for Year 14

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	40,726	62,665	32,593	135,984	0	0	0	0	135,984
Feb	30,486	56,439	24,398	111,323	0	0	0	0	111,323
Mar	46,105	62,307	35,299	143,711	0	0	0	0	143,711
Apr	62,077	60,118	47,528	169,723	0	0	0	0	169,723
May	44,552	61,937	31,115	137,604	36,661	0	0	36,661	100,943
Jun	39,931	59,760	24,614	124,305	40,254	0	0	40,254	84,051
Jul	43,697	61,567	25,891	131,155	48,039	0	0	48,039	83,116
Aug	41,339	61,379	23,154	125,872	39,190	0	0	39,190	86,682
Sep	42,796	59,221	24,826	126,843	27,230	0	0	27,230	99,613
Oct	54,876	61,010	36,432	152,318	16,434	0	0	16,434	135,884
Nov	63,029	58,863	46,435	168,327	0	0	0	0	168,327
Dec	52,480	60,640	41,696	154,816	0	0	0	0	154,816
Annual	562,094	725,906	393,981	1,681,981	207,808	0	0	207,808	1,474,173

Table 315 West Pit Water Balance for Year 15

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,082	60,452	32,877	134,411	0	0	0	0	134,411
Feb	32,241	56,382	25,802	114,425	0	0	0	0	114,425
Mar	46,158	60,088	35,339	141,585	0	0	0	0	141,585
Apr	60,422	57,971	46,261	164,654	0	0	0	0	164,654
May	45,975	59,718	32,116	137,809	36,661	0	0	36,661	101,148
Jun	40,148	57,613	24,754	122,515	40,254	0	0	40,254	82,261
Jul	43,140	59,349	25,560	128,049	48,039	0	0	48,039	80,010
Aug	40,954	59,161	22,933	123,048	39,190	0	0	39,190	83,858
Sep	41,995	57,073	24,357	123,425	27,230	0	0	27,230	96,195
Oct	56,485	58,791	37,505	152,781	16,434	0	0	16,434	136,347
Nov	62,759	56,716	46,236	165,711	0	0	0	0	165,711
Dec	52,615	58,421	41,803	152,839	0	0	0	0	152,839
Annual	563,974	701,735	395,543	1,661,252	207,808	0	0	207,808	1,453,444

Table 316 West Pit Water Balance for Year 16

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	40,729	58,233	32,595	131,557	0	0	0	0	131,557
Feb	31,039	52,436	24,840	108,315	0	0	0	0	108,315
Mar	46,798	57,876	35,829	140,503	0	0	0	0	140,503
Apr	60,643	55,830	46,430	162,903	0	0	0	0	162,903
May	45,016	57,506	31,438	133,960	36,661	0	0	36,661	97,299
Jun	40,548	55,472	25,001	121,021	40,254	0	0	40,254	80,767
Jul	44,882	57,136	26,603	128,621	48,039	0	0	48,039	80,582
Aug	41,018	56,948	22,967	120,933	39,190	0	0	39,190	81,743
Sep	41,943	54,932	24,326	121,201	27,230	0	0	27,230	93,971
Oct	55,449	56,578	36,814	148,841	16,434	0	0	16,434	132,407
Nov	61,958	54,574	45,646	162,178	0	0	0	0	162,178
Dec	52,839	56,208	41,982	151,029	0	0	0	0	151,029
Annual	562,862	673,729	394,471	1,631,062	207,808	0	0	207,808	1,423,254

Table 317 West Pit Water Balance for Year 17

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	40,686	56,021	32,561	129,268	0	0	0	0	129,268
Feb	30,186	50,438	24,158	104,782	0	0	0	0	104,782
Mar	46,360	55,663	35,494	137,517	0	0	0	0	137,517
Apr	61,613	53,688	47,172	162,473	0	0	0	0	162,473
May	44,941	55,293	31,390	131,624	36,661	0	0	36,661	94,963
Jun	40,766	53,330	25,131	119,227	40,254	0	0	40,254	78,973
Jul	44,284	54,923	26,245	125,452	48,039	0	0	48,039	77,413
Aug	41,013	54,735	22,968	118,716	39,190	0	0	39,190	79,526
Sep	43,098	52,791	25,001	120,890	27,230	0	0	27,230	93,660
Oct	55,812	54,366	37,056	147,234	16,434	0	0	16,434	130,800
Nov	62,603	52,433	46,121	161,157	0	0	0	0	161,157
Dec	53,016	53,996	42,122	149,134	0	0	0	0	149,134
Annual	564,378	647,677	395,419	1,607,474	207,808	0	0	207,808	1,399,666

Table 318 West Pit Water Balance for Year 18

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,458	53,808	33,179	128,445	0	0	0	0	128,445
Feb	29,572	48,439	23,667	101,678	0	0	0	0	101,678
Mar	46,060	53,450	35,265	134,775	0	0	0	0	134,775
Apr	62,045	51,547	47,503	161,095	0	0	0	0	161,095
May	44,861	53,080	31,335	129,276	36,661	0	0	36,661	92,615
Jun	40,001	51,189	24,661	115,851	40,254	0	0	40,254	75,597
Jul	43,693	52,711	25,891	122,295	48,039	0	0	48,039	74,256
Aug	40,225	52,523	22,524	115,272	39,190	0	0	39,190	76,082
Sep	42,619	50,649	24,721	117,989	27,230	0	0	27,230	90,759
Oct	55,954	52,153	37,150	145,257	16,434	0	0	16,434	128,823
Nov	62,241	50,292	45,854	158,387	0	0	0	0	158,387
Dec	53,324	51,783	42,367	147,474	0	0	0	0	147,474
Annual	562,053	621,624	394,117	1,577,794	207,808	0	0	207,808	1,369,986

Table 319 West Pit Water Balance for Year 19

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,091	51,595	32,885	125,571	0	0	0	0	125,571
Feb	32,390	48,096	25,922	106,408	0	0	0	0	106,408
Mar	45,836	51,231	35,093	132,160	0	0	0	0	132,160
Apr	60,227	49,400	46,111	155,738	0	0	0	0	155,738
May	45,884	50,862	32,054	128,800	36,661	0	0	36,661	92,139
Jun	39,815	49,042	24,547	113,404	40,254	0	0	40,254	73,150
Jul	43,693	50,492	25,893	120,078	48,039	0	0	48,039	72,039
Aug	40,863	50,304	22,884	114,051	39,190	0	0	39,190	74,861
Sep	42,183	48,502	24,466	115,151	27,230	0	0	27,230	87,921
Oct	56,539	49,934	37,542	144,015	16,434	0	0	16,434	127,581
Nov	62,659	48,144	46,162	156,965	0	0	0	0	156,965
Dec	52,902	49,564	42,032	144,498	0	0	0	0	144,498
Annual	564,082	597,166	395,591	1,556,839	207,808	0	0	207,808	1,349,031

Table 320 West Pit Water Balance for Year 20

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	40,819	49,376	32,667	122,862	0	0	0	0	122,862
Feb	30,703	44,437	24,571	99,711	0	0	0	0	99,711
Mar	46,504	49,019	35,604	131,127	0	0	0	0	131,127
Apr	60,620	47,259	46,412	154,291	0	0	0	0	154,291
May	44,766	48,649	31,263	124,678	36,661	0	0	36,661	88,017
Jun	40,863	46,901	25,196	112,960	40,254	0	0	40,254	72,706
Jul	44,027	48,279	26,090	118,396	48,039	0	0	48,039	70,357
Aug	40,485	48,091	22,668	111,244	39,190	0	0	39,190	72,054
Sep	43,065	46,361	24,983	114,409	27,230	0	0	27,230	87,179
Oct	55,637	47,721	36,938	140,296	16,434	0	0	16,434	123,862
Nov	62,400	46,003	45,971	154,374	0	0	0	0	154,374
Dec	52,754	47,352	41,914	142,020	0	0	0	0	142,020
Annual	562,643	569,448	394,277	1,526,368	207,808	0	0	207,808	1,318,560

Table 321 West Pit Water Balance for Year 21

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,548	47,164	33,251	121,963	0	0	0	0	121,963
Feb	30,374	42,438	24,308	97,120	0	0	0	0	97,120
Mar	46,502	46,806	35,602	128,910	0	0	0	0	128,910
Apr	60,828	45,117	46,571	152,516	0	0	0	0	152,516
May	45,110	46,436	31,509	123,055	36,661	0	0	36,661	86,394
Jun	39,942	44,759	24,619	109,320	40,254	0	0	40,254	69,066
Jul	44,710	46,066	26,505	117,281	48,039	0	0	48,039	69,242
Aug	41,732	45,879	23,371	110,982	39,190	0	0	39,190	71,792
Sep	43,108	44,220	25,009	112,337	27,230	0	0	27,230	85,107
Oct	55,982	45,509	37,168	138,659	16,434	0	0	16,434	122,225
Nov	62,521	43,862	46,060	152,443	0	0	0	0	152,443
Dec	53,526	45,139	42,527	141,192	0	0	0	0	141,192
Annual	565,883	543,395	396,500	1,505,778	207,808	0	0	207,808	1,297,970

Table 322 West Pit Water Balance for Year 22

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	40,992	44,951	32,806	118,749	0	0	0	0	118,749
Feb	29,672	40,439	23,747	93,858	0	0	0	0	93,858
Mar	46,418	44,593	35,539	126,550	0	0	0	0	126,550
Apr	62,044	42,976	47,502	152,522	0	0	0	0	152,522
May	44,831	44,224	31,317	120,372	36,661	0	0	36,661	83,711
Jun	39,784	42,618	24,520	106,922	40,254	0	0	40,254	66,668
Jul	44,360	43,854	26,288	114,502	48,039	0	0	48,039	66,463
Aug	40,364	43,666	22,597	106,627	39,190	0	0	39,190	67,437
Sep	42,878	42,078	24,874	109,830	27,230	0	0	27,230	82,600
Oct	55,535	43,296	36,870	135,701	16,434	0	0	16,434	119,267
Nov	62,934	41,720	46,365	151,019	0	0	0	0	151,019
Dec	53,564	42,926	42,557	139,047	0	0	0	0	139,047
Annual	563,376	517,341	394,982	1,475,699	207,808	0	0	207,808	1,267,891

Table 323 West Pit Water Balance for Year 23

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	40,459	42,738	32,379	115,576	0	0	0	0	115,576
Feb	32,667	39,811	26,143	98,621	0	0	0	0	98,621
Mar	45,706	42,375	34,993	123,074	0	0	0	0	123,074
Apr	60,282	40,829	46,153	147,264	0	0	0	0	147,264
May	45,999	42,005	32,132	120,136	36,661	0	0	36,661	83,475
Jun	40,078	40,471	24,712	105,261	40,254	0	0	40,254	65,007
Jul	43,822	41,635	25,971	111,428	48,039	0	0	48,039	63,389
Aug	41,040	41,447	22,985	105,472	39,190	0	0	39,190	66,282
Sep	42,274	39,931	24,518	106,723	27,230	0	0	27,230	79,493
Oct	56,236	41,077	37,338	134,651	16,434	0	0	16,434	118,217
Nov	62,352	39,573	45,936	147,861	0	0	0	0	147,861
Dec	53,404	40,707	42,431	136,542	0	0	0	0	136,542
Annual	564,319	492,599	395,691	1,452,609	207,808	0	0	207,808	1,244,801

Table 324 West Pit Water Balance for Year 24

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,224	40,520	32,991	114,735	0	0	0	0	114,735
Feb	30,808	36,437	24,655	91,900	0	0	0	0	91,900
Mar	46,663	40,162	35,726	122,551	0	0	0	0	122,551
Apr	61,630	38,687	47,185	147,502	0	0	0	0	147,502
May	45,277	39,792	31,624	116,693	36,661	0	0	36,661	80,032
Jun	40,442	38,330	24,935	103,707	40,254	0	0	40,254	63,453
Jul	43,421	39,422	25,729	108,572	48,039	0	0	48,039	60,533
Aug	41,334	39,234	23,147	103,715	39,190	0	0	39,190	64,525
Sep	42,456	37,790	24,628	104,874	27,230	0	0	27,230	77,644
Oct	54,973	38,865	36,498	130,336	16,434	0	0	16,434	113,902
Nov	62,466	37,432	46,020	145,918	0	0	0	0	145,918
Dec	53,232	38,495	42,293	134,020	0	0	0	0	134,020
Annual	563,926	465,166	395,431	1,424,523	207,808	0	0	207,808	1,216,715

Table 325 West Pit Water Balance for Year 25

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,268	38,307	33,026	112,601	0	0	0	0	112,601
Feb	30,253	34,438	24,212	88,903	0	0	0	0	88,903
Mar	47,098	37,949	36,059	121,106	0	0	0	0	121,106
Apr	61,390	36,546	47,001	144,937	0	0	0	0	144,937
May	45,642	37,579	31,882	115,103	36,661	0	0	36,661	78,442
Jun	40,232	36,188	24,800	101,220	40,254	0	0	40,254	60,966
Jul	44,512	37,210	26,380	108,102	48,039	0	0	48,039	60,063
Aug	41,039	37,022	22,980	101,041	39,190	0	0	39,190	61,851
Sep	42,741	35,649	24,793	103,183	27,230	0	0	27,230	75,953
Oct	55,411	36,652	36,789	128,852	16,434	0	0	16,434	112,418
Nov	63,045	35,291	46,447	144,783	0	0	0	0	144,783
Dec	53,089	36,282	42,180	131,551	0	0	0	0	131,551
Annual	565,720	439,113	396,549	1,401,382	207,808	0	0	207,808	1,193,574

Table 326 West Pit Water Balance for Year 26

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,356	36,094	33,097	110,547	0	0	0	0	110,547
Feb	30,591	32,440	24,482	87,513	0	0	0	0	87,513
Mar	45,747	35,737	35,025	116,509	0	0	0	0	116,509
Apr	62,650	34,405	47,966	145,021	0	0	0	0	145,021
May	44,924	35,367	31,375	111,666	36,661	0	0	36,661	75,005
Jun	39,931	34,047	24,615	98,593	40,254	0	0	40,254	58,339
Jul	43,701	34,997	25,890	104,588	48,039	0	0	48,039	56,549
Aug	40,673	34,809	22,774	98,256	39,190	0	0	39,190	59,066
Sep	43,179	33,507	25,050	101,736	27,230	0	0	27,230	74,506
Oct	54,955	34,439	36,484	125,878	16,434	0	0	16,434	109,444
Nov	62,222	33,149	45,840	141,211	0	0	0	0	141,211
Dec	52,957	34,069	42,075	129,101	0	0	0	0	129,101
Annual	562,886	413,060	394,673	1,370,619	207,808	0	0	207,808	1,162,811

Table 327 West Pit Water Balance for Year 27

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	40,628	33,881	32,514	107,023	0	0	0	0	107,023
Feb	32,343	31,525	25,884	89,752	0	0	0	0	89,752
Mar	46,166	33,518	35,345	115,029	0	0	0	0	115,029
Apr	59,957	32,258	45,904	138,119	0	0	0	0	138,119
May	46,059	33,148	32,175	111,382	36,661	0	0	36,661	74,721
Jun	41,185	31,900	25,397	98,482	40,254	0	0	40,254	58,228
Jul	43,367	32,778	25,694	101,839	48,039	0	0	48,039	53,800
Aug	42,080	32,590	23,568	98,238	39,190	0	0	39,190	59,048
Sep	41,387	31,360	24,001	96,748	27,230	0	0	27,230	69,518
Oct	55,914	32,220	37,122	125,256	16,434	0	0	16,434	108,822
Nov	62,156	31,002	45,792	138,950	0	0	0	0	138,950
Dec	52,466	31,851	41,685	126,002	0	0	0	0	126,002
Annual	563,708	388,031	395,081	1,346,820	207,808	0	0	207,808	1,139,012

Table 328 West Pit Water Balance for Year 28

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,047	31,663	32,849	105,559	0	0	0	0	105,559
Feb	30,868	28,437	24,704	84,009	0	0	0	0	84,009
Mar	46,347	31,305	35,484	113,136	0	0	0	0	113,136
Apr	61,444	30,116	47,043	138,603	0	0	0	0	138,603
May	45,031	30,935	31,452	107,418	36,661	0	0	36,661	70,757
Jun	40,453	29,758	24,936	95,147	40,254	0	0	40,254	54,893
Jul	43,806	30,566	25,950	100,322	48,039	0	0	48,039	52,283
Aug	41,824	30,378	23,424	95,626	39,190	0	0	39,190	56,436
Sep	42,419	29,219	24,605	96,243	27,230	0	0	27,230	69,013
Oct	55,152	30,008	36,615	121,775	16,434	0	0	16,434	105,341
Nov	62,554	28,861	46,085	137,500	0	0	0	0	137,500
Dec	52,415	29,638	41,644	123,697	0	0	0	0	123,697
Annual	563,360	360,884	394,791	1,319,035	207,808	0	0	207,808	1,111,227

Table 329 West Pit Water Balance for Year 29

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,127	29,450	32,913	103,490	0	0	0	0	103,490
Feb	30,008	26,439	24,015	80,462	0	0	0	0	80,462
Mar	46,010	29,092	35,226	110,328	0	0	0	0	110,328
Apr	61,631	27,975	47,186	136,792	0	0	0	0	136,792
May	44,625	28,723	31,166	104,514	36,661	0	0	36,661	67,853
Jun	40,515	27,617	24,977	93,109	40,254	0	0	40,254	52,855
Jul	43,214	28,353	25,603	97,170	48,039	0	0	48,039	49,131
Aug	41,109	28,165	23,019	92,293	39,190	0	0	39,190	53,103
Sep	43,114	27,077	25,012	95,203	27,230	0	0	27,230	67,973
Oct	55,844	27,795	37,076	120,715	16,434	0	0	16,434	104,281
Nov	62,640	26,720	46,148	135,508	0	0	0	0	135,508
Dec	52,701	27,425	41,872	121,998	0	0	0	0	121,998
Annual	562,538	334,831	394,213	1,291,582	207,808	0	0	207,808	1,083,774

Table 330 West Pit Water Balance for Year 30

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	40,958	27,237	32,779	100,974	0	0	0	0	100,974
Feb	30,624	24,440	24,508	79,572	0	0	0	0	79,572
Mar	46,392	26,880	35,518	108,790	0	0	0	0	108,790
Apr	62,947	25,834	48,193	136,974	0	0	0	0	136,974
May	44,866	26,510	31,336	102,712	36,661	0	0	36,661	66,051
Jun	40,673	25,476	25,074	91,223	40,254	0	0	40,254	50,969
Jul	44,248	26,140	26,220	96,608	48,039	0	0	48,039	48,569
Aug	40,498	25,952	22,673	89,123	39,190	0	0	39,190	49,933
Sep	42,539	24,936	24,675	92,150	27,230	0	0	27,230	64,920
Oct	55,570	25,582	36,894	118,046	16,434	0	0	16,434	101,612
Nov	62,994	24,578	46,409	133,981	0	0	0	0	133,981
Dec	52,379	25,213	41,616	119,208	0	0	0	0	119,208
Annual	564,688	308,778	395,895	1,269,361	207,808	0	0	207,808	1,061,553

Table 331 West Pit Water Balance for Year 31

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	40,979	25,025	32,795	98,799	0	0	0	0	98,799
Feb	32,469	23,240	25,985	81,694	0	0	0	0	81,694
Mar	46,698	24,661	35,753	107,112	0	0	0	0	107,112
Apr	60,425	23,687	46,262	130,374	0	0	0	0	130,374
May	45,874	24,291	32,044	102,209	36,661	0	0	36,661	65,548
Jun	40,360	23,329	24,882	88,571	40,254	0	0	40,254	48,317
Jul	43,263	23,921	25,635	92,819	48,039	0	0	48,039	44,780
Aug	41,295	23,733	23,121	88,149	39,190	0	0	39,190	48,959
Sep	42,358	22,789	24,567	89,714	27,230	0	0	27,230	62,484
Oct	56,030	23,364	37,202	116,596	16,434	0	0	16,434	100,162
Nov	62,399	22,431	45,971	130,801	0	0	0	0	130,801
Dec	52,056	22,994	41,359	116,409	0	0	0	0	116,409
Annual	564,206	283,465	395,576	1,243,247	207,808	0	0	207,808	1,035,439

Table 332 West Pit Water Balance for Year 32

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	40,870	22,806	32,708	96,384	0	0	0	0	96,384
Feb	31,317	20,437	25,063	76,817	0	0	0	0	76,817
Mar	45,924	22,448	35,160	103,532	0	0	0	0	103,532
Apr	61,429	21,545	47,031	130,005	0	0	0	0	130,005
May	46,168	22,078	32,253	100,499	36,661	0	0	36,661	63,838
Jun	40,328	21,187	24,862	86,377	40,254	0	0	40,254	46,123
Jul	43,332	21,709	25,671	90,712	48,039	0	0	48,039	42,673
Aug	41,409	21,521	23,193	86,123	39,190	0	0	39,190	46,933
Sep	42,040	20,648	24,381	87,069	27,230	0	0	27,230	59,839
Oct	56,657	21,151	37,618	115,426	16,434	0	0	16,434	98,992
Nov	62,236	20,290	45,850	128,376	0	0	0	0	128,376
Dec	53,895	20,781	42,820	117,496	0	0	0	0	117,496
Annual	565,605	256,601	396,610	1,218,816	207,808	0	0	207,808	1,011,008

Table 333 West Pit Water Balance for Year 33

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	40,725	20,593	32,592	93,910	0	0	0	0	93,910
Feb	30,500	18,439	24,409	73,348	0	0	0	0	73,348
Mar	46,757	20,236	35,798	102,791	0	0	0	0	102,791
Apr	60,909	19,404	46,633	126,946	0	0	0	0	126,946
May	44,833	19,866	31,313	96,012	36,661	0	0	36,661	59,351
Jun	39,679	19,046	24,454	83,179	40,254	0	0	40,254	42,925
Jul	43,517	19,496	25,783	88,796	48,039	0	0	48,039	40,757
Aug	41,361	19,308	23,163	83,832	39,190	0	0	39,190	44,642
Sep	43,252	18,506	25,089	86,847	27,230	0	0	27,230	59,617
Oct	55,761	18,938	37,019	111,718	16,434	0	0	16,434	95,284
Nov	62,859	18,148	46,310	127,317	0	0	0	0	127,317
Dec	52,881	18,568	42,015	113,464	0	0	0	0	113,464
Annual	563,034	230,548	394,578	1,188,160	207,808	0	0	207,808	980,352

Table 334 West Pit Water Balance for Year 34

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,183	18,381	32,959	92,523	0	0	0	0	92,523
Feb	30,061	16,440	24,057	70,558	0	0	0	0	70,558
Mar	46,357	18,023	35,492	99,872	0	0	0	0	99,872
Apr	61,850	17,263	47,354	126,467	0	0	0	0	126,467
May	44,575	17,653	31,132	93,360	36,661	0	0	36,661	56,699
Jun	40,135	16,905	24,738	81,778	40,254	0	0	40,254	41,524
Jul	43,874	17,283	25,993	87,150	48,039	0	0	48,039	39,111
Aug	40,541	17,095	22,697	80,333	39,190	0	0	39,190	41,143
Sep	42,910	16,365	24,895	84,170	27,230	0	0	27,230	56,940
Oct	55,988	16,726	37,172	109,886	16,434	0	0	16,434	93,452
Nov	62,202	16,007	45,826	124,035	0	0	479	479	123,556
Dec	52,629	16,356	41,814	110,799	0	0	6,139	6,139	104,660
Annual	562,305	204,497	394,129	1,160,931	207,808	0	6,618	214,426	946,505

Table 335 West Pit Water Balance for Year 35

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,327	16,256	33,073	90,656	0	0	6,393	6,393	84,263
Feb	31,859	15,207	25,497	72,563	0	0	9,376	9,376	63,187
Mar	46,371	16,256	35,502	98,129	0	0	19,860	19,860	78,269
Apr	60,254	15,731	46,132	122,117	0	0	37,373	37,373	84,744
May	45,920	16,256	32,076	94,252	36,661	0	17,276	53,937	40,315
Jun	40,072	15,731	24,705	80,508	40,254	0	10,663	50,917	29,591
Jul	43,524	16,256	25,787	85,567	48,039	0	14,135	62,174	23,393
Aug	41,040	16,256	22,978	80,274	39,190	0	13,556	52,746	27,528
Sep	42,274	15,731	24,518	82,523	27,230	0	21,931	49,161	33,362
Oct	56,981	16,256	37,834	111,071	16,434	0	38,319	54,753	56,318
Nov	61,703	15,731	45,458	122,892	0	0	66,289	66,289	56,603
Dec	53,105	16,256	42,193	111,554	0	0	70,735	70,735	40,819
Annual	564,430	191,923	395,753	1,152,106	207,808	0	325,906	533,714	618,392

Table 336 West Pit Water Balance for Year 36

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	40,804	16,256	32,656	89,716	0	0	57,563	57,563	32,153
Feb	30,650	14,683	24,529	69,862	0	0	47,946	47,946	21,916
Mar	47,263	16,256	36,185	99,704	0	0	73,027	73,027	26,677
Apr	60,591	15,731	46,390	122,712	0	0	103,287	103,287	19,425
May	46,164	16,256	32,250	94,670	36,661	0	52,302	88,963	5,707
Jun	40,424	15,731	24,922	81,077	40,254	0	36,706	76,960	4,117
Jul	43,518	16,256	25,785	85,559	48,039	0	34,908	82,947	2,612
Aug	42,049	16,256	23,554	81,859	39,190	0	37,992	77,182	4,677
Sep	42,157	15,731	24,451	82,339	27,230	0	49,979	77,209	5,130
Oct	55,210	16,256	36,654	108,120	16,434	0	85,647	102,081	6,039
Nov	62,884	15,731	46,328	124,943	0	0	121,667	121,667	3,276
Dec	52,871	16,256	42,007	111,134	0	0	112,836	112,836	-1,702
Annual	564,585	191,399	395,711	1,151,695	207,808	0	813,860	1,021,668	130,027

Table 337 West Pit Water Balance for Year 37

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,479	16,256	33,195	90,930	0	0	89,915	89,915	1,015
Feb	30,457	14,683	24,375	69,515	0	0	69,696	69,696	-181
Mar	45,954	16,256	35,183	97,393	0	0	95,616	95,616	1,777
Apr	60,683	15,731	46,460	122,874	0	0	124,279	124,279	-1,405
May	45,312	16,256	31,653	93,221	36,661	0	61,141	97,802	-4,581
Jun	40,526	15,731	24,984	81,241	40,254	0	41,856	82,110	-869
Jul	43,967	16,256	26,052	86,275	48,039	0	39,809	87,848	-1,573
Aug	40,899	16,256	22,902	80,057	39,190	0	38,815	78,005	2,052
Sep	42,403	15,731	24,594	82,728	27,230	0	52,806	80,036	2,692
Oct	55,178	16,256	36,632	108,066	16,434	0	90,672	107,106	960
Nov	62,366	15,731	45,947	124,044	0	0	121,403	121,403	2,641
Dec	53,348	16,256	42,386	111,990	0	0	113,689	113,689	-1,699
Annual	562,572	191,399	394,363	1,148,334	207,808	0	939,697	1,147,505	829

Table 338 West Pit Water Balance for Year 38

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	40,916	16,256	32,745	89,917	0	0	89,722	89,722	195
Feb	30,682	14,683	24,554	69,919	0	0	70,282	70,282	-363
Mar	45,842	16,256	35,098	97,196	0	0	94,625	94,625	2,571
Apr	62,058	15,731	47,513	125,302	0	0	126,954	126,954	-1,652
May	45,281	16,256	31,627	93,164	36,661	0	61,694	98,355	-5,191
Jun	39,802	15,731	24,532	80,065	40,254	0	40,156	80,410	-345
Jul	44,436	16,256	26,331	87,023	48,039	0	40,732	88,771	-1,748
Aug	40,524	16,256	22,687	79,467	39,190	0	38,170	77,360	2,107
Sep	45,455	15,731	26,383	87,569	27,230	0	57,679	84,909	2,660
Oct	55,520	16,256	36,861	108,637	16,434	0	91,432	107,866	771
Nov	62,238	15,731	45,852	123,821	0	0	120,777	120,777	3,044
Dec	53,175	16,256	42,248	111,679	0	0	114,055	114,055	-2,376
Annual	565,929	191,399	396,431	1,153,759	207,808	0	946,278	1,154,086	-327

Table 339 West Pit Water Balance for Year 39

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,551	16,256	33,253	91,060	0	0	90,572	90,572	488
Feb	31,992	15,207	25,603	72,802	0	0	71,775	71,775	1,027
Mar	46,241	16,256	35,403	97,900	0	0	96,654	96,654	1,246
Apr	60,608	15,731	46,403	122,742	0	0	125,237	125,237	-2,495
May	46,059	16,256	32,172	94,487	36,661	0	60,526	97,187	-2,700
Jun	40,072	15,731	24,702	80,505	40,254	0	41,656	81,910	-1,405
Jul	42,915	16,256	25,427	84,598	48,039	0	39,148	87,187	-2,589
Aug	41,467	16,256	23,220	80,943	39,190	0	39,291	78,481	2,462
Sep	42,137	15,731	24,440	82,308	27,230	0	52,906	80,136	2,172
Oct	55,184	16,256	36,637	108,077	16,434	0	89,682	106,116	1,961
Nov	63,268	15,731	46,611	125,610	0	0	124,918	124,918	692
Dec	52,473	16,256	41,691	110,420	0	0	111,427	111,427	-1,007
Annual	563,967	191,923	395,562	1,151,452	207,808	0	943,792	1,151,600	-148

Table 340 West Pit Water Balance for Year 40

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,118	16,256	32,907	90,281	0	0	90,177	90,177	104
Feb	31,427	14,683	25,151	71,261	0	0	70,189	70,189	1,072
Mar	46,262	16,256	35,419	97,937	0	0	96,578	96,578	1,359
Apr	60,921	15,731	46,642	123,294	0	0	125,402	125,402	-2,108
May	46,009	16,256	32,141	94,406	36,661	0	61,210	97,871	-3,465
Jun	40,104	15,731	24,724	80,559	40,254	0	41,271	81,525	-966
Jul	44,642	16,256	26,463	87,361	48,039	0	41,563	89,602	-2,241
Aug	41,313	16,256	23,137	80,706	39,190	0	38,861	78,051	2,655
Sep	42,510	15,731	24,659	82,900	27,230	0	54,426	81,656	1,244
Oct	55,700	16,256	36,980	108,936	16,434	0	90,601	107,035	1,901
Nov	62,232	15,731	45,848	123,811	0	0	122,007	122,007	1,804
Dec	52,650	16,256	41,831	110,737	0	0	112,468	112,468	-1,731
Annual	564,888	191,399	395,902	1,152,189	207,808	0	944,753	1,152,561	-372

Table 341 West Pit Water Balance for Year 41

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,159	16,256	32,939	90,354	0	0	89,324	89,324	1,030
Feb	31,068	14,683	24,863	70,614	0	0	71,051	71,051	-437
Mar	46,892	16,256	35,902	99,050	0	0	97,123	97,123	1,927
Apr	61,209	15,731	46,863	123,803	0	0	125,161	125,161	-1,358
May	44,580	16,256	31,136	91,972	36,661	0	59,844	96,505	-4,533
Jun	40,123	15,731	24,733	80,587	40,254	0	41,170	81,424	-837
Jul	44,425	16,256	26,329	87,010	48,039	0	40,652	88,691	-1,681
Aug	41,141	16,256	23,037	80,434	39,190	0	39,245	78,435	1,999
Sep	42,182	15,731	24,466	82,379	27,230	0	52,670	79,900	2,479
Oct	55,836	16,256	37,071	109,163	16,434	0	91,402	107,836	1,327
Nov	62,268	15,731	45,875	123,874	0	0	120,840	120,840	3,034
Dec	52,925	16,256	42,050	111,231	0	0	113,421	113,421	-2,190
Annual	563,808	191,399	395,264	1,150,471	207,808	0	941,903	1,149,711	760

Table 342 West Pit Water Balance for Year 42

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,523	16,256	33,231	91,010	0	0	90,666	90,666	344
Feb	30,011	14,683	24,018	68,712	0	0	69,095	69,095	-383
Mar	45,982	16,256	35,204	97,442	0	0	94,922	94,922	2,520
Apr	61,903	15,731	47,394	125,028	0	0	126,566	126,566	-1,538
May	45,029	16,256	31,451	92,736	36,661	0	61,308	97,969	-5,233
Jun	40,199	15,731	24,781	80,711	40,254	0	40,544	80,798	-87
Jul	44,341	16,256	26,274	86,871	48,039	0	40,849	88,888	-2,017
Aug	40,673	16,256	22,772	79,701	39,190	0	38,464	77,654	2,047
Sep	42,747	15,731	24,795	83,273	27,230	0	53,568	80,798	2,475
Oct	56,939	16,256	37,807	111,002	16,434	0	93,287	109,721	1,281
Nov	62,862	15,731	46,312	124,905	0	0	122,118	122,118	2,787
Dec	53,008	16,256	42,115	111,379	0	0	113,960	113,960	-2,581
Annual	565,217	191,399	396,154	1,152,770	207,808	0	945,347	1,153,155	-385

Table 343 West Pit Water Balance for Year 43

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,074	16,256	32,872	90,202	0	0	89,513	89,513	689
Feb	31,882	15,207	25,515	72,604	0	0	71,562	71,562	1,042
Mar	46,442	16,256	35,557	98,255	0	0	96,722	96,722	1,533
Apr	61,139	15,731	46,809	123,679	0	0	126,536	126,536	-2,857
May	45,417	16,256	31,720	93,393	36,661	0	59,526	96,187	-2,794
Jun	39,867	15,731	24,574	80,172	40,254	0	41,100	81,354	-1,182
Jul	43,359	16,256	25,692	85,307	48,039	0	39,920	87,959	-2,652
Aug	41,120	16,256	23,026	80,402	39,190	0	38,941	78,131	2,271
Sep	42,052	15,731	24,390	82,173	27,230	0	52,676	79,906	2,267
Oct	55,584	16,256	36,905	108,745	16,434	0	90,345	106,779	1,966
Nov	62,273	15,731	45,878	123,882	0	0	123,026	123,026	856
Dec	52,185	16,256	41,462	109,903	0	0	111,037	111,037	-1,134
Annual	562,394	191,923	394,400	1,148,717	207,808	0	940,904	1,148,712	5

Table 344 West Pit Water Balance for Year 44

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	40,870	16,256	32,708	89,834	0	0	89,873	89,873	-39
Feb	31,457	14,683	25,175	71,315	0	0	70,055	70,055	1,260
Mar	47,242	16,256	36,170	99,668	0	0	98,141	98,141	1,527
Apr	61,451	15,731	47,048	124,230	0	0	126,635	126,635	-2,405
May	45,295	16,256	31,638	93,189	36,661	0	60,136	96,797	-3,608
Jun	40,124	15,731	24,735	80,590	40,254	0	41,349	81,603	-1,013
Jul	43,973	16,256	26,058	86,287	48,039	0	40,075	88,114	-1,827
Aug	41,618	16,256	23,311	81,185	39,190	0	39,424	78,614	2,571
Sep	42,080	15,731	24,405	82,216	27,230	0	53,782	81,012	1,204
Oct	56,209	16,256	37,319	109,784	16,434	0	91,471	107,905	1,879
Nov	63,436	15,731	46,735	125,902	0	0	123,345	123,345	2,557
Dec	52,203	16,256	41,476	109,935	0	0	112,402	112,402	-2,467
Annual	565,958	191,399	396,778	1,154,135	207,808	0	946,688	1,154,496	-361

Table 345 West Pit Water Balance for Year 45

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	40,847	16,256	32,690	89,793	0	0	88,758	88,758	1,035
Feb	30,760	14,683	24,617	70,060	0	0	70,524	70,524	-464
Mar	46,509	16,256	35,608	98,373	0	0	95,670	95,670	2,703
Apr	62,197	15,731	47,619	125,547	0	0	127,683	127,683	-2,136
May	44,970	16,256	31,410	92,636	36,661	0	60,520	97,181	-4,545
Jun	40,269	15,731	24,823	80,823	40,254	0	41,476	81,730	-907
Jul	43,301	16,256	25,655	85,212	48,039	0	38,997	87,036	-1,824
Aug	41,687	16,256	23,349	81,292	39,190	0	39,859	79,049	2,243
Sep	42,501	15,731	24,654	82,886	27,230	0	53,169	80,399	2,487
Oct	55,525	16,256	36,865	108,646	16,434	0	91,000	107,434	1,212
Nov	62,095	15,731	45,747	123,573	0	0	120,948	120,948	2,625
Dec	53,130	16,256	42,213	111,599	0	0	113,289	113,289	-1,690
Annual	563,791	191,399	395,250	1,150,440	207,808	0	941,893	1,149,701	739

Table 346 West Pit Water Balance for Year 46

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	40,252	16,256	32,213	88,721	0	0	88,518	88,518	203
Feb	29,881	14,683	23,914	68,478	0	0	68,899	68,899	-421
Mar	45,774	16,256	35,046	97,076	0	0	94,498	94,498	2,578
Apr	62,191	15,731	47,615	125,537	0	0	127,245	127,245	-1,708
May	44,578	16,256	31,132	91,966	36,661	0	60,237	96,898	-4,932
Jun	40,080	15,731	24,705	80,516	40,254	0	40,520	80,774	-258
Jul	43,523	16,256	25,784	85,563	48,039	0	39,532	87,571	-2,008
Aug	40,838	16,256	22,866	79,960	39,190	0	38,495	77,685	2,275
Sep	42,973	15,731	24,928	83,632	27,230	0	53,872	81,102	2,530
Oct	55,355	16,256	36,751	108,362	16,434	0	90,804	107,238	1,124
Nov	62,778	15,731	46,250	124,759	0	0	121,555	121,555	3,204
Dec	52,885	16,256	42,018	111,159	0	0	114,159	114,159	-3,000
Annual	561,108	191,399	393,222	1,145,729	207,808	0	938,334	1,146,142	-413

Table 347 West Pit Water Balance for Year 47

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,056	16,256	32,857	90,169	0	0	89,424	89,424	745
Feb	31,852	15,207	25,491	72,550	0	0	71,535	71,535	1,015
Mar	46,537	16,256	35,630	98,423	0	0	97,544	97,544	879
Apr	59,852	15,731	45,824	121,407	0	0	123,489	123,489	-2,082
May	46,221	16,256	32,287	94,764	36,661	0	60,883	97,544	-2,780
Jun	39,919	15,731	24,609	80,259	40,254	0	41,510	81,764	-1,505
Jul	43,126	16,256	25,551	84,933	48,039	0	39,344	87,383	-2,450
Aug	41,345	16,256	23,154	80,755	39,190	0	39,239	78,429	2,326
Sep	42,343	15,731	24,559	82,633	27,230	0	53,209	80,439	2,194
Oct	57,016	16,256	37,860	111,132	16,434	0	92,731	109,165	1,967
Nov	62,331	15,731	45,921	123,983	0	0	123,346	123,346	637
Dec	52,704	16,256	41,874	110,834	0	0	111,749	111,749	-915
Annual	564,302	191,923	395,617	1,151,842	207,808	0	944,003	1,151,811	31

Table 348 West Pit Water Balance for Year 48

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	40,757	16,256	32,617	89,630	0	0	89,669	89,669	-39
Feb	31,591	14,683	25,282	71,556	0	0	69,996	69,996	1,560
Mar	46,181	16,256	35,357	97,794	0	0	96,672	96,672	1,122
Apr	60,232	15,731	46,114	122,077	0	0	124,377	124,377	-2,300
May	45,203	16,256	31,569	93,028	36,661	0	59,791	96,452	-3,424
Jun	40,371	15,731	24,888	80,990	40,254	0	41,919	82,173	-1,183
Jul	44,010	16,256	26,078	86,344	48,039	0	40,250	88,289	-1,945
Aug	41,864	16,256	23,445	81,565	39,190	0	39,685	78,875	2,690
Sep	41,578	15,731	24,114	81,423	27,230	0	53,119	80,349	1,074
Oct	56,364	16,256	37,423	110,043	16,434	0	91,580	108,014	2,029
Nov	63,414	15,731	46,718	125,863	0	0	123,793	123,793	2,070
Dec	52,834	16,256	41,977	111,067	0	0	113,105	113,105	-2,038
Annual	564,399	191,399	395,582	1,151,380	207,808	0	943,956	1,151,764	-384

Table 349 West Pit Water Balance for Year 49

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	41,463	16,256	33,183	90,902	0	0	89,933	89,933	969
Feb	30,120	14,683	24,105	68,908	0	0	69,285	69,285	-377
Mar	46,048	16,256	35,255	97,559	0	0	95,244	95,244	2,315
Apr	62,146	15,731	47,580	125,457	0	0	126,839	126,839	-1,382
May	46,156	16,256	32,247	94,659	36,661	0	62,902	99,563	-4,904
Jun	40,421	15,731	24,923	81,075	40,254	0	41,599	81,853	-778
Jul	44,467	16,256	26,361	87,084	48,039	0	41,004	89,043	-1,959
Aug	40,860	16,256	22,882	79,998	39,190	0	38,661	77,851	2,147
Sep	41,936	15,731	24,325	81,992	27,230	0	52,239	79,469	2,523
Oct	54,719	16,256	36,327	107,302	16,434	0	89,608	106,042	1,260
Nov	63,016	15,731	46,425	125,172	0	0	122,226	122,226	2,946
Dec	52,568	16,256	41,766	110,590	0	0	112,634	112,634	-2,044
Annual	563,920	191,399	395,379	1,150,698	207,808	0	942,174	1,149,982	716

Table 350 West Pit Water Balance for Year 50

Month	Inflow Summary (m3)				Outflow Summary (m3)				Δ Storage (m3)
	Surface Runoff	Groundwater Inflow	Central Pond Discharge	Total Inflows	Evaporation	Dewatering to Central Pond	Discharge to Lake	Total Outflows	
Jan	40,850	16,256	32,692	89,798	0	0	89,551	89,551	247
Feb	30,169	14,683	24,144	68,996	0	0	68,982	68,982	14
Mar	46,049	16,256	35,256	97,561	0	0	95,741	95,741	1,820
Apr	61,361	15,731	46,979	124,071	0	0	125,454	125,454	-1,383
May	44,607	16,256	31,154	92,017	36,661	0	60,239	96,900	-4,883
Jun	39,854	15,731	24,564	80,149	40,254	0	40,485	80,739	-590
Jul	43,226	16,256	25,606	85,088	48,039	0	39,064	87,103	-2,015
Aug	40,919	16,256	22,915	80,090	39,190	0	38,516	77,706	2,384
Sep	42,806	15,731	24,831	83,368	27,230	0	53,586	80,816	2,552
Oct	55,110	16,256	36,587	107,953	16,434	0	90,232	106,666	1,287
Nov	63,183	15,731	46,548	125,462	0	0	122,291	122,291	3,171
Dec	52,518	16,256	41,727	110,501	0	0	113,475	113,475	-2,974
Annual	560,652	191,399	393,003	1,145,054	207,808	0	937,616	1,145,424	-370

Appendix B

Monthly Flow Impacts

Table 1 Water Balance for the Lake Outlet Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	912,790	778,462	-14.7%	700,466	-23.3%	942,274	3.2%
February	747,243	647,088	-13.4%	574,442	-23.1%	782,550	4.7%
March	864,493	763,635	-11.7%	675,908	-21.8%	930,823	7.7%
April	1,246,205	1,059,183	-15.0%	1,011,051	-18.9%	1,275,187	2.3%
May	750,185	642,453	-14.4%	593,113	-20.9%	731,875	-2.4%
June	399,615	396,113	-0.9%	346,805	-13.2%	444,554	11.2%
July	354,700	365,612	3.1%	309,065	-12.9%	416,403	17.4%
August	267,813	300,190	12.1%	254,497	-5.0%	343,438	28.2%
September	347,868	377,865	8.6%	329,179	-5.4%	447,907	28.8%
October	705,127	672,856	-4.6%	625,506	-11.3%	814,343	15.5%
November	1,092,548	963,949	-11.8%	949,979	-13.0%	1,197,307	9.6%
December	1,148,324	1,002,202	-12.7%	957,088	-16.7%	1,183,236	3.0%
Annual	8,836,910	7,969,609	-9.8%	7,327,097	-17.1%	9,509,897	7.6%

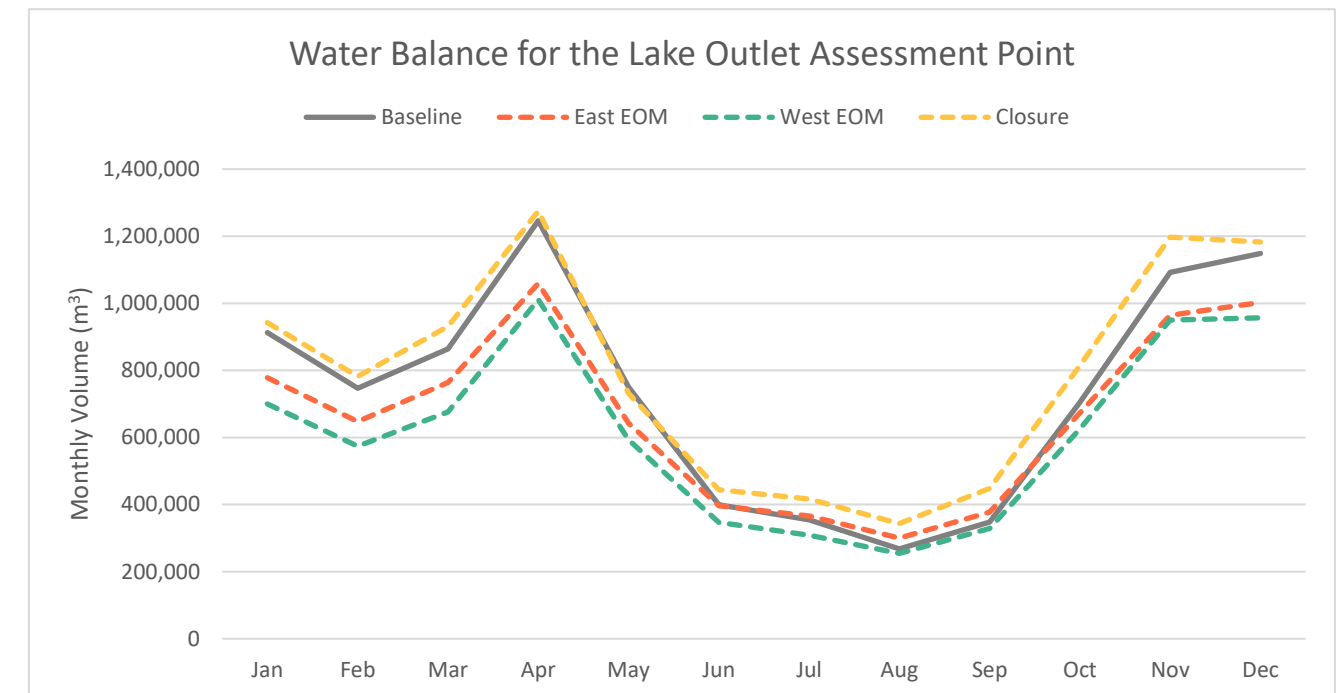


Table 2 Water Balance for the GB-DS1 Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	947,733	789,492	-16.7%	711,587	-24.9%	954,962	0.8%
February	780,453	656,067	-15.9%	583,599	-25.2%	793,286	1.6%
March	917,982	774,870	-15.6%	687,145	-25.1%	943,653	2.8%
April	1,305,704	1,074,180	-17.7%	1,026,255	-21.4%	1,292,405	-1.0%
May	758,270	651,208	-14.1%	601,794	-20.6%	742,075	-2.1%
June	418,078	401,563	-4.0%	352,204	-15.8%	450,679	7.8%
July	372,598	370,458	-0.6%	313,921	-15.7%	422,015	13.3%
August	279,396	303,578	8.7%	257,927	-7.7%	347,403	24.3%
September	367,461	382,249	4.0%	333,524	-9.2%	452,860	23.2%
October	749,092	682,001	-9.0%	634,583	-15.3%	824,740	10.1%
November	1,157,879	977,910	-15.5%	964,337	-16.7%	1,213,230	4.8%
December	1,198,278	1,016,390	-15.2%	971,190	-19.0%	1,199,201	0.1%
Annual	9,252,924	8,079,965	-12.7%	7,438,064	-19.6%	9,636,510	4.1%

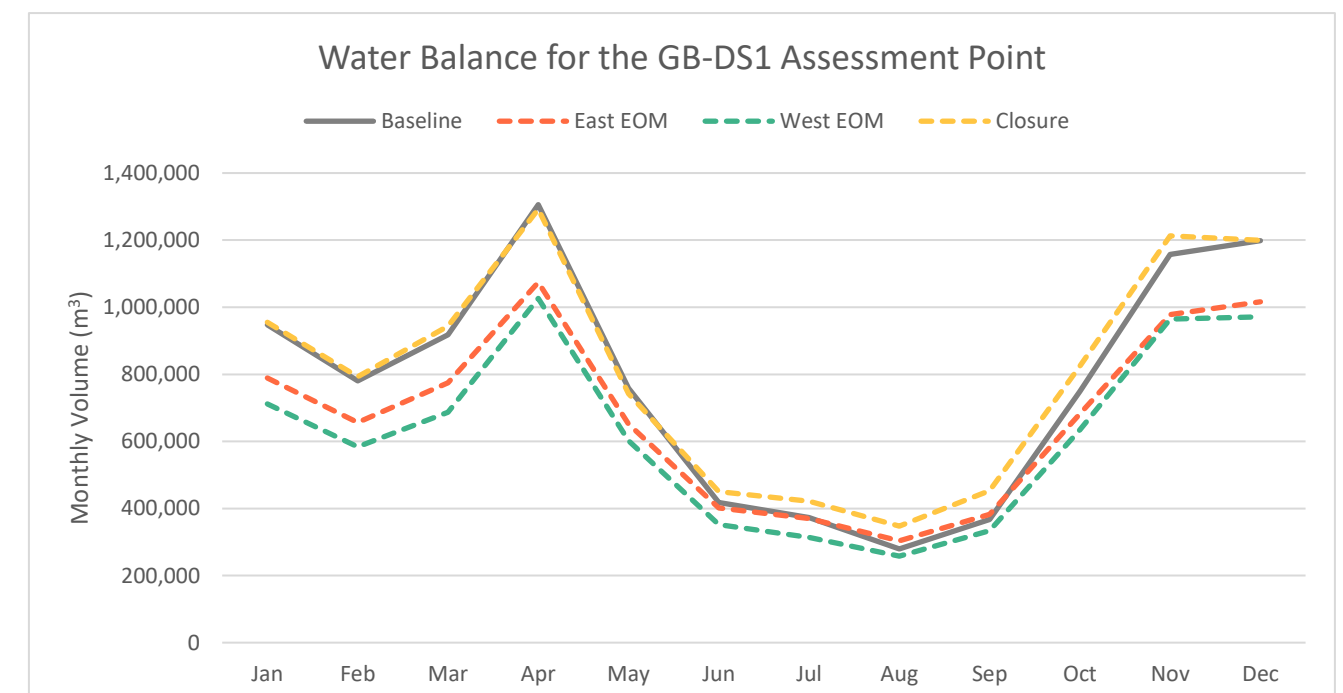


Table 3 Water Balance for the GB-DS2 Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	271,734	217,620	-19.9%	198,105	-27.1%	261,553	-3.7%
February	223,775	180,421	-19.4%	162,552	-27.4%	217,712	-2.7%
March	262,846	214,818	-18.3%	192,431	-26.8%	259,139	-1.4%
April	373,763	296,547	-20.7%	283,947	-24.0%	354,142	-5.2%
May	219,407	179,270	-18.3%	165,757	-24.5%	203,814	-7.1%
June	121,568	111,433	-8.3%	97,652	-19.7%	123,576	1.7%
July	108,670	102,682	-5.5%	87,093	-19.9%	115,410	6.2%
August	81,007	83,289	2.8%	70,389	-13.1%	93,597	15.5%
September	105,415	104,834	-0.6%	90,910	-13.8%	121,616	15.4%
October	214,272	188,464	-12.0%	174,866	-18.4%	224,671	4.9%
November	330,879	271,080	-18.1%	267,018	-19.3%	331,957	0.3%
December	343,401	280,186	-18.4%	268,029	-21.9%	328,511	-4.3%
Annual	2,656,737	2,230,643	-16.0%	2,058,750	-22.5%	2,635,698	-0.8%

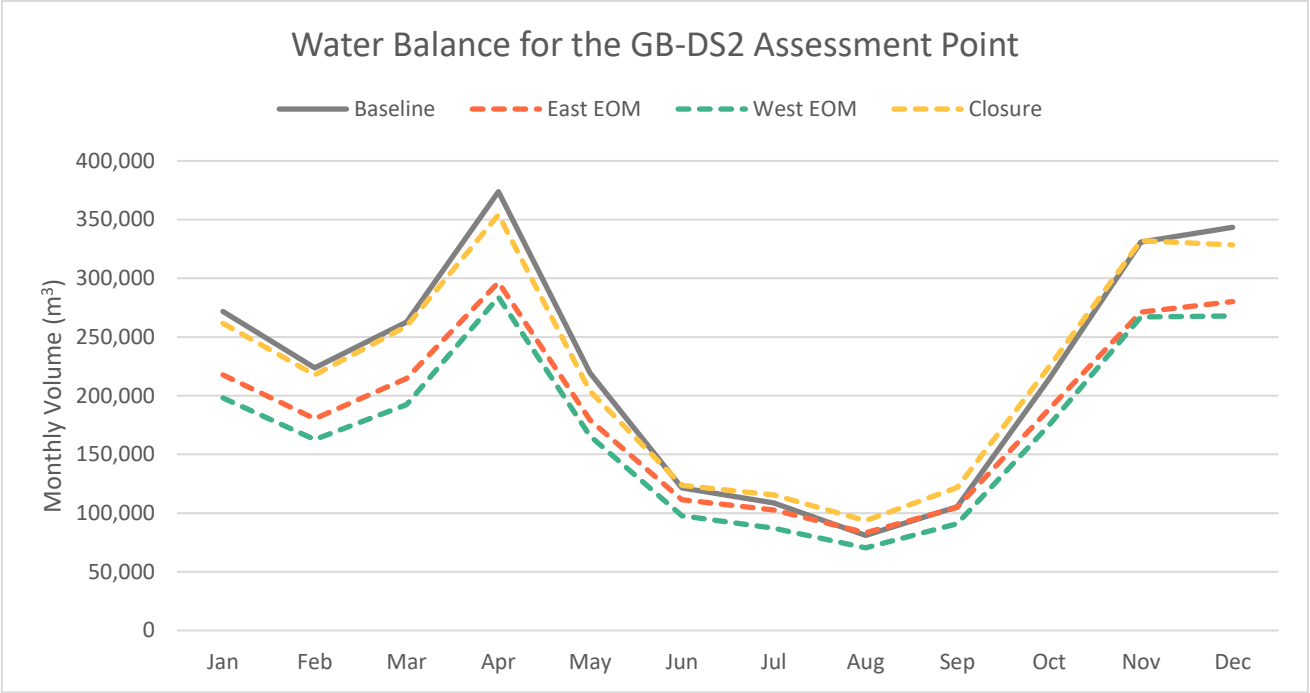


Table 4 Water Balance for the GB-DS3 Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	547,176	420,686	-23.1%	388,520	-29.0%	521,482	-4.7%
February	450,606	348,769	-22.6%	318,811	-29.2%	434,298	-3.6%
March	529,047	414,688	-21.6%	377,443	-28.7%	516,618	-2.3%
April	752,233	572,338	-23.9%	556,304	-26.0%	705,866	-6.2%
May	443,099	345,493	-22.0%	325,132	-26.6%	407,169	-8.1%
June	245,894	213,273	-13.3%	191,800	-22.0%	246,891	0.4%
July	220,015	195,954	-10.9%	171,121	-22.2%	230,357	4.7%
August	163,701	158,026	-3.5%	138,005	-15.7%	186,205	13.7%
September	212,305	199,489	-6.0%	177,942	-16.2%	241,245	13.6%
October	431,140	361,732	-16.1%	342,443	-20.6%	447,126	3.7%
November	665,556	522,397	-21.5%	523,105	-21.4%	661,359	-0.6%
December	691,377	541,536	-21.7%	524,997	-24.1%	654,588	-5.3%
Annual	5,352,150	4,294,381	-19.8%	4,035,623	-24.6%	5,253,203	-1.8%

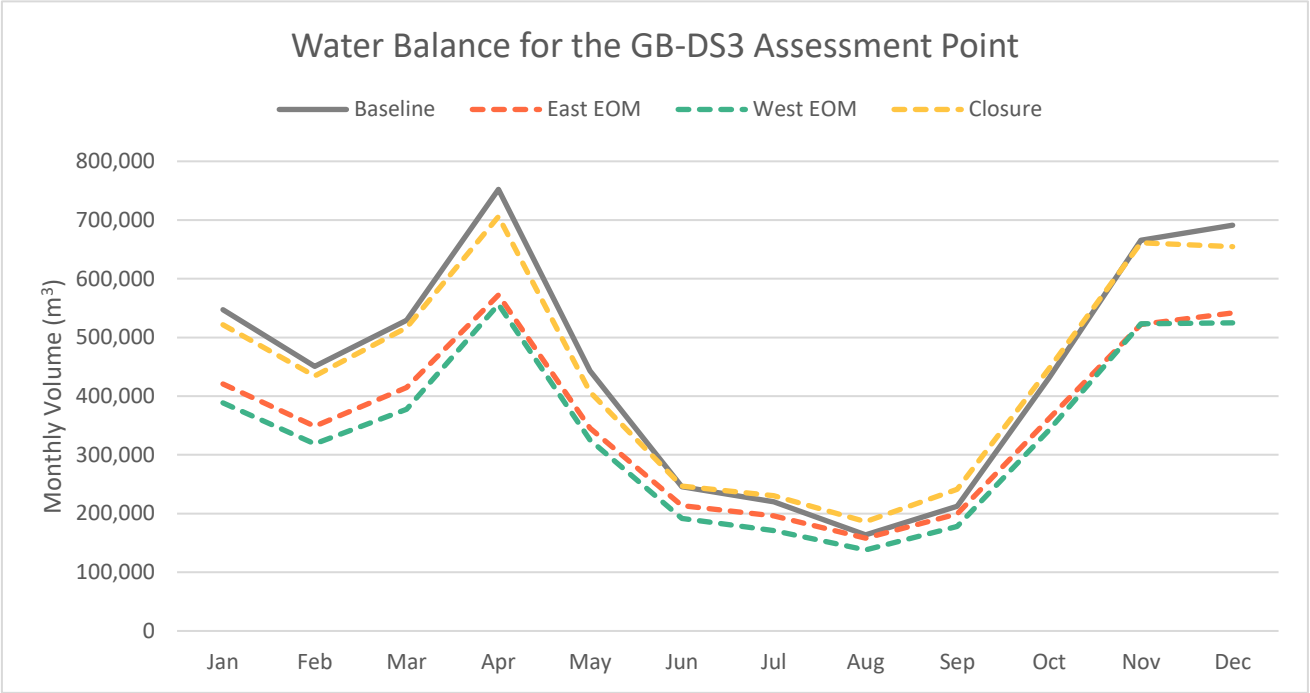


Table 5 Water Balance for the GB-DS4 Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	1,150,540	917,528	-20.3%	840,989	-26.9%	1,117,716	-2.9%
February	947,480	760,292	-19.8%	690,146	-27.2%	931,010	-1.7%
March	1,112,620	905,892	-18.6%	818,211	-26.5%	1,108,231	-0.4%
April	1,582,051	1,249,683	-21.0%	1,204,173	-23.9%	1,514,136	-4.3%
May	930,574	754,275	-18.9%	703,497	-24.4%	873,684	-6.1%
June	516,083	467,556	-9.4%	416,459	-19.3%	530,700	2.8%
July	461,586	429,966	-6.9%	372,174	-19.4%	495,691	7.4%
August	343,707	346,558	0.8%	299,888	-12.7%	400,487	16.5%
September	446,379	436,900	-2.1%	386,146	-13.5%	518,394	16.1%
October	906,837	791,257	-12.7%	741,973	-18.2%	959,797	5.8%
November	1,400,077	1,142,224	-18.4%	1,132,943	-19.1%	1,418,931	1.3%
December	1,453,843	1,181,114	-18.8%	1,135,230	-21.9%	1,403,518	-3.5%
Annual	11,251,777	9,383,245	-16.6%	8,741,830	-22.3%	11,272,293	0.2%

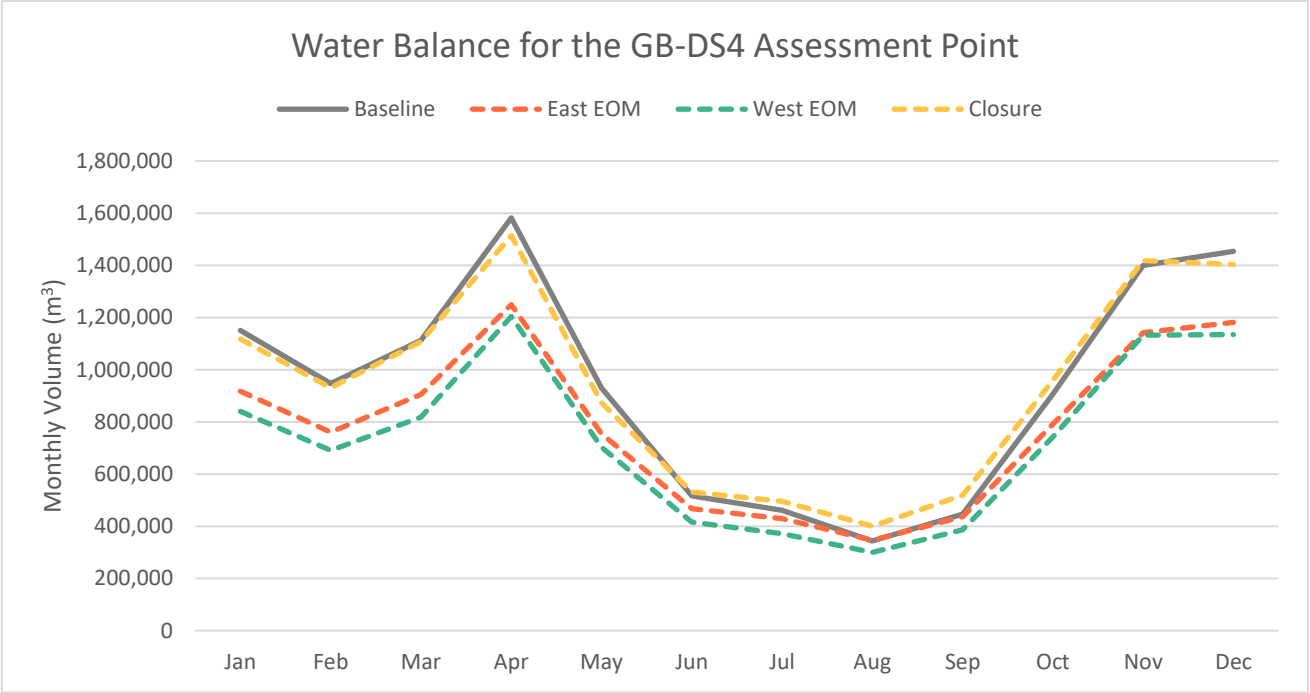


Table 6 Water Balance for the GB-DS5 Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	1,223,837	983,531	-19.6%	922,260	-24.6%	1,194,079	-2.4%
February	1,007,846	814,021	-19.2%	757,063	-24.9%	995,628	-1.2%
March	1,182,965	972,811	-17.8%	899,664	-23.9%	1,185,127	0.2%
April	1,681,927	1,339,281	-20.4%	1,314,969	-21.8%	1,617,619	-3.8%
May	992,847	806,684	-18.8%	766,984	-22.7%	935,104	-5.8%
June	551,503	500,185	-9.3%	455,941	-17.3%	567,581	2.9%
July	493,748	458,846	-7.1%	407,411	-17.5%	529,345	7.2%
August	366,950	366,966	0.0%	325,231	-11.4%	424,492	15.7%
September	474,902	463,046	-2.5%	417,712	-12.0%	548,117	15.4%
October	963,849	845,886	-12.2%	808,096	-16.2%	1,022,271	6.1%
November	1,487,612	1,225,713	-17.6%	1,237,745	-16.8%	1,514,708	1.8%
December	1,546,209	1,265,579	-18.1%	1,237,362	-20.0%	1,499,165	-3.0%
Annual	11,974,197	10,042,550	-16.1%	9,550,438	-20.2%	12,033,237	0.5%

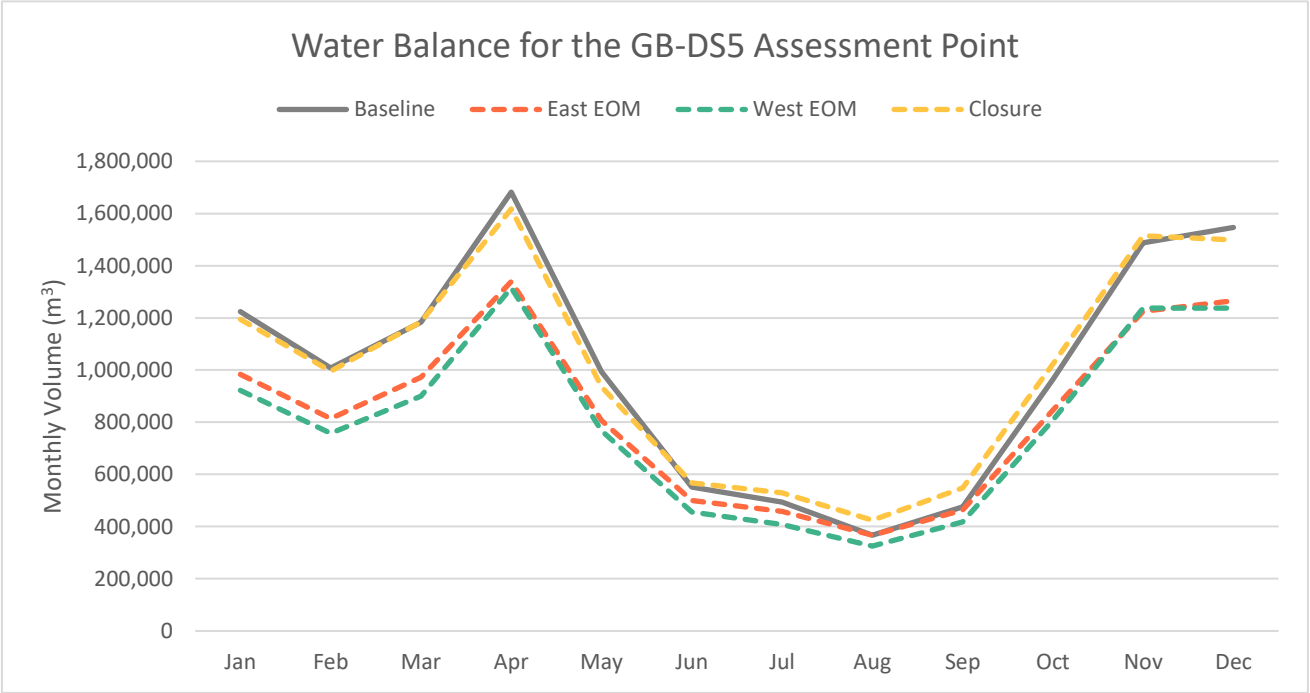


Table 7 Water Balance for the GB-DS6 Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	1,277,930	1,038,736	-18.7%	977,437	-23.5%	1,248,320	-2.3%
February	1,052,396	858,959	-18.4%	802,495	-23.7%	1,041,528	-1.0%
March	1,234,879	1,028,654	-16.7%	955,041	-22.7%	1,239,783	0.4%
April	1,755,634	1,414,160	-19.5%	1,390,227	-20.8%	1,691,140	-3.7%
May	1,038,805	850,529	-18.1%	810,080	-22.0%	978,728	-5.8%
June	577,644	527,482	-8.7%	482,743	-16.4%	593,775	2.8%
July	517,483	482,953	-6.7%	431,362	-16.6%	553,265	6.9%
August	384,103	384,087	0.0%	342,405	-10.9%	441,529	15.0%
September	495,951	484,880	-2.2%	439,163	-11.5%	569,240	14.8%
October	1,005,922	891,536	-11.4%	853,012	-15.2%	1,066,659	6.0%
November	1,552,211	1,295,519	-16.5%	1,308,910	-15.7%	1,582,747	2.0%
December	1,614,374	1,336,047	-17.2%	1,306,808	-19.1%	1,567,153	-2.9%
Annual	12,507,332	10,593,543	-15.3%	10,099,684	-19.2%	12,573,868	0.5%

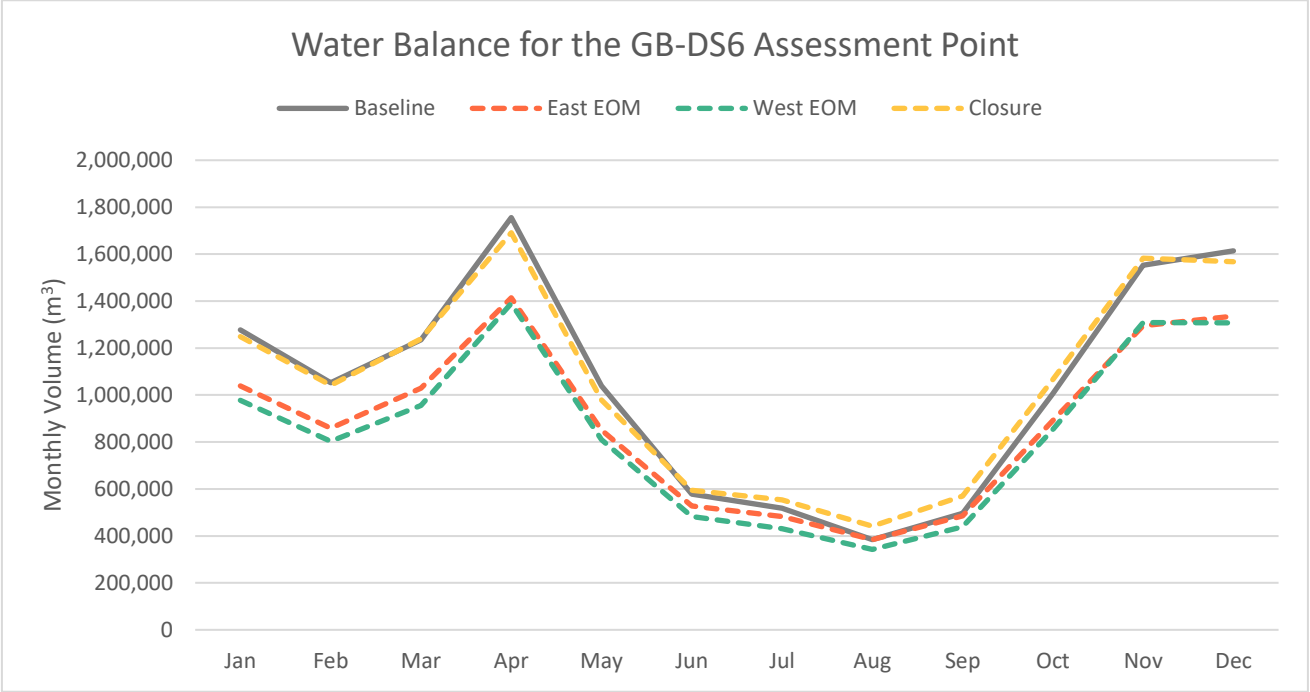


Table 8 Water Balance for the WC-69-US Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	60,674	59,972	-1.2%	60,435	-0.4%	60,661	0.0%
February	49,970	49,202	-1.5%	49,282	-1.4%	49,959	0.0%
March	58,230	57,019	-2.1%	57,216	-1.7%	58,218	0.0%
April	82,676	81,319	-1.6%	82,514	-0.2%	82,658	0.0%
May	51,549	51,607	0.1%	51,423	-0.2%	51,538	0.0%
June	29,320	29,224	-0.3%	29,177	-0.5%	29,314	0.0%
July	26,623	26,222	-1.5%	25,904	-2.7%	26,617	0.0%
August	19,240	19,005	-1.2%	19,327	0.5%	19,236	0.0%
September	23,610	23,371	-1.0%	23,279	-1.4%	23,605	0.0%
October	47,193	47,320	0.3%	47,093	-0.2%	47,183	0.0%
November	72,459	71,432	-1.4%	73,829	1.9%	72,444	0.0%
December	76,459	77,766	1.7%	77,078	0.8%	76,443	0.0%
Annual	598,004	593,459	-0.8%	596,556	-0.2%	597,876	0.0%

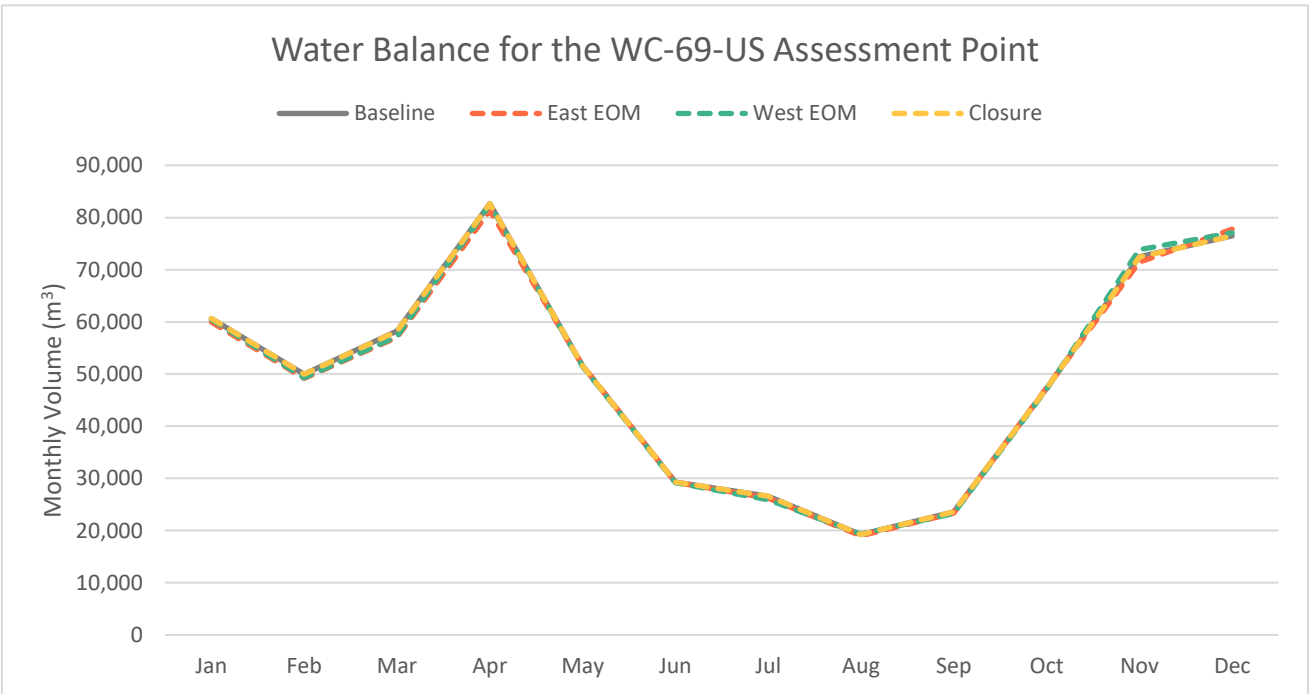


Table 9 Water Balance for the WC-22-US Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	181,012	176,988	-2.2%	178,352	-1.5%	179,023	-1.1%
February	149,078	145,201	-2.6%	145,438	-2.4%	147,439	-1.1%
March	173,722	168,315	-3.1%	168,899	-2.8%	171,855	-1.1%
April	246,649	240,021	-2.7%	243,546	-1.3%	243,972	-1.1%
May	153,787	152,277	-1.0%	151,733	-1.3%	152,073	-1.1%
June	87,473	86,237	-1.4%	86,097	-1.6%	86,503	-1.1%
July	79,425	77,398	-2.6%	76,459	-3.7%	78,563	-1.1%
August	57,400	56,073	-2.3%	57,022	-0.7%	56,756	-1.1%
September	70,437	68,983	-2.1%	68,713	-2.4%	69,675	-1.1%
October	140,793	139,682	-0.8%	139,010	-1.3%	139,279	-1.1%
November	216,171	210,830	-2.5%	217,906	0.8%	213,819	-1.1%
December	228,102	229,556	0.6%	227,523	-0.3%	225,650	-1.1%
Annual	1,784,051	1,751,561	-1.8%	1,760,699	-1.3%	1,764,608	-1.1%

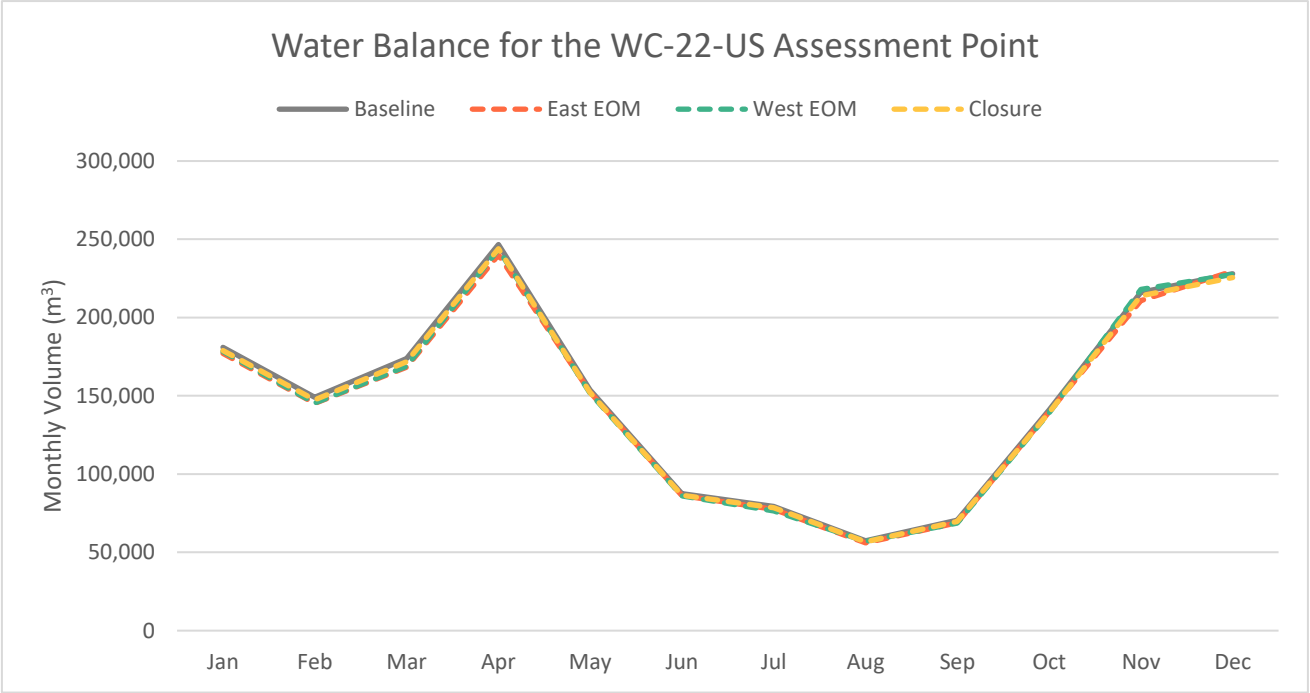


Table 10 Water Balance for the WC-22-DS1 Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	192,400	181,884	-5.5%	183,284	-4.7%	183,976	-4.4%
February	158,456	149,215	-5.8%	149,461	-5.7%	151,518	-4.4%
March	184,651	173,004	-6.3%	173,606	-6.0%	176,644	-4.3%
April	262,166	246,689	-5.9%	250,311	-4.5%	250,748	-4.4%
May	163,463	156,473	-4.3%	155,912	-4.6%	156,262	-4.4%
June	92,976	88,616	-4.7%	88,473	-4.8%	88,891	-4.4%
July	84,421	79,548	-5.8%	78,583	-6.9%	80,746	-4.4%
August	61,011	57,612	-5.6%	58,589	-4.0%	58,316	-4.4%
September	74,869	70,900	-5.3%	70,623	-5.7%	71,612	-4.3%
October	149,651	143,573	-4.1%	142,880	-4.5%	143,158	-4.3%
November	229,770	216,681	-5.7%	223,956	-2.5%	219,755	-4.4%
December	242,453	235,951	-2.7%	233,859	-3.5%	231,936	-4.3%
Annual	1,896,287	1,800,148	-5.1%	1,809,538	-4.6%	1,813,563	-4.4%

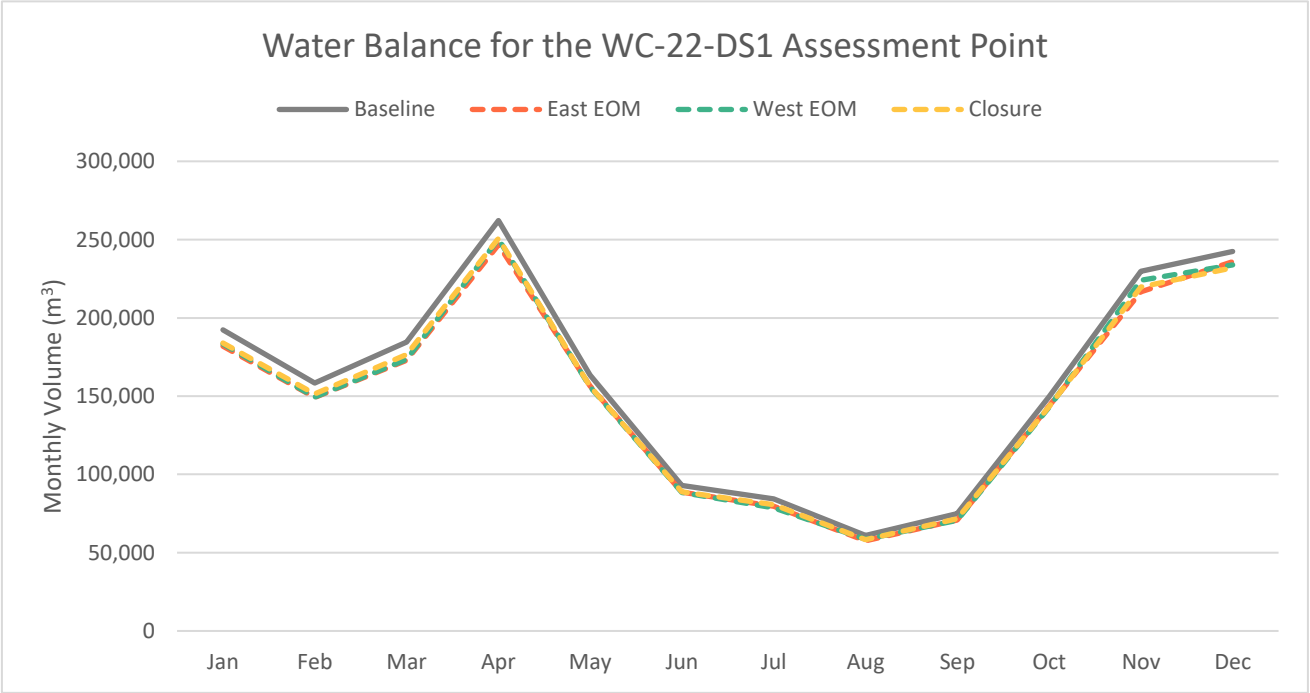


Table 11 Water Balance for the WC-22-DS2 Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	209,320	198,648	-5.1%	200,176	-4.4%	200,936	-4.0%
February	172,391	162,968	-5.5%	163,236	-5.3%	165,486	-4.0%
March	200,889	188,940	-5.9%	189,598	-5.6%	192,919	-4.0%
April	285,221	269,418	-5.5%	273,374	-4.2%	273,856	-4.0%
May	177,837	170,898	-3.9%	170,286	-4.2%	170,672	-4.0%
June	101,152	96,784	-4.3%	96,629	-4.5%	97,086	-4.0%
July	91,846	86,877	-5.4%	85,824	-6.6%	88,187	-4.0%
August	66,376	62,925	-5.2%	63,992	-3.6%	63,694	-4.0%
September	81,453	77,432	-4.9%	77,129	-5.3%	78,211	-4.0%
October	162,811	156,798	-3.7%	156,042	-4.2%	156,348	-4.0%
November	249,975	236,647	-5.3%	244,591	-2.2%	240,008	-4.0%
December	263,773	257,685	-2.3%	255,401	-3.2%	253,306	-4.0%
Annual	2,063,044	1,966,022	-4.7%	1,976,276	-4.2%	1,980,709	-4.0%

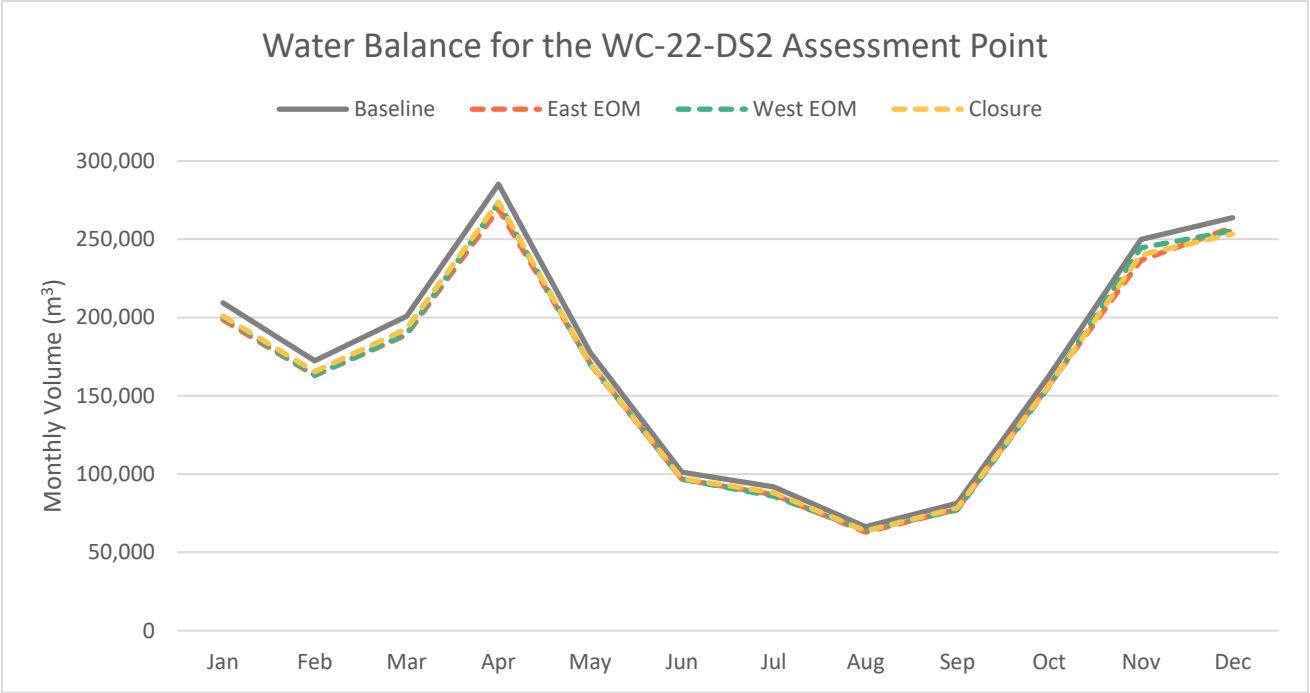


Table 12 Water Balance for the WC-50-DS Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	29,788	14,259	-52.1%	14,373	-51.7%	14,433	-51.5%
February	24,533	11,697	-52.3%	11,721	-52.2%	11,887	-51.5%
March	28,588	13,581	-52.5%	13,634	-52.3%	13,876	-51.5%
April	40,589	19,355	-52.3%	19,645	-51.6%	19,685	-51.5%
May	25,308	12,258	-51.6%	12,217	-51.7%	12,249	-51.6%
June	14,395	6,944	-51.8%	6,935	-51.8%	6,970	-51.6%
July	13,070	6,241	-52.2%	6,168	-52.8%	6,339	-51.5%
August	9,446	4,510	-52.3%	4,589	-51.4%	4,569	-51.6%
September	11,591	5,563	-52.0%	5,544	-52.2%	5,623	-51.5%
October	23,169	11,270	-51.4%	11,219	-51.6%	11,245	-51.5%
November	35,574	16,997	-52.2%	17,575	-50.6%	17,251	-51.5%
December	37,537	18,522	-50.7%	18,362	-51.1%	18,218	-51.5%
Annual	293,588	141,197	-51.9%	141,982	-51.6%	142,346	-51.5%

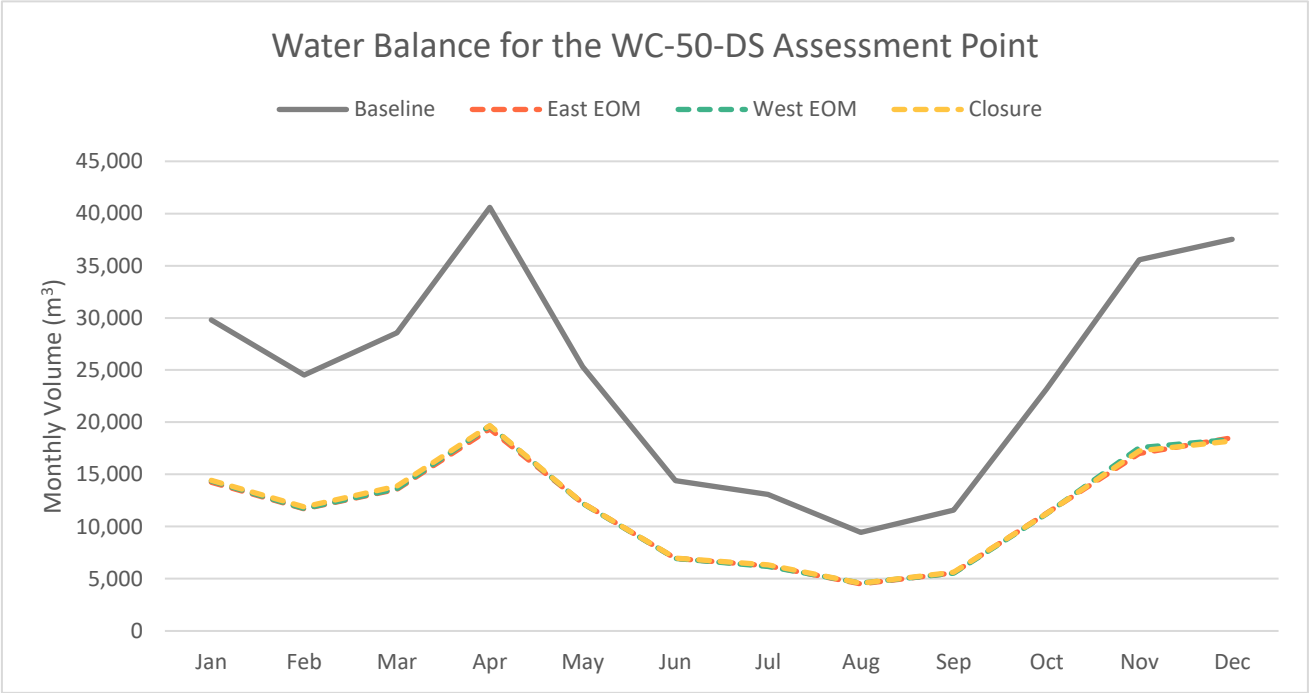


Table 13 Water Balance for the WC-14-US Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	67,432	66,057	-2.0%	66,854	-0.9%	67,243	-0.3%
February	55,536	54,206	-2.4%	54,517	-1.8%	55,380	-0.3%
March	64,716	62,831	-2.9%	63,302	-2.2%	64,539	-0.3%
April	91,884	89,600	-2.5%	91,285	-0.7%	91,629	-0.3%
May	57,290	56,849	-0.8%	56,882	-0.7%	57,127	-0.3%
June	32,586	32,194	-1.2%	32,275	-1.0%	32,494	-0.3%
July	29,588	28,893	-2.3%	28,658	-3.1%	29,506	-0.3%
August	21,383	20,934	-2.1%	21,378	0.0%	21,322	-0.3%
September	26,240	25,751	-1.9%	25,754	-1.9%	26,168	-0.3%
October	52,450	52,143	-0.6%	52,101	-0.7%	52,306	-0.3%
November	80,529	78,704	-2.3%	81,676	1.4%	80,306	-0.3%
December	84,974	85,692	0.8%	85,275	0.4%	84,741	-0.3%
Annual	664,609	653,854	-1.6%	659,955	-0.7%	662,762	-0.3%

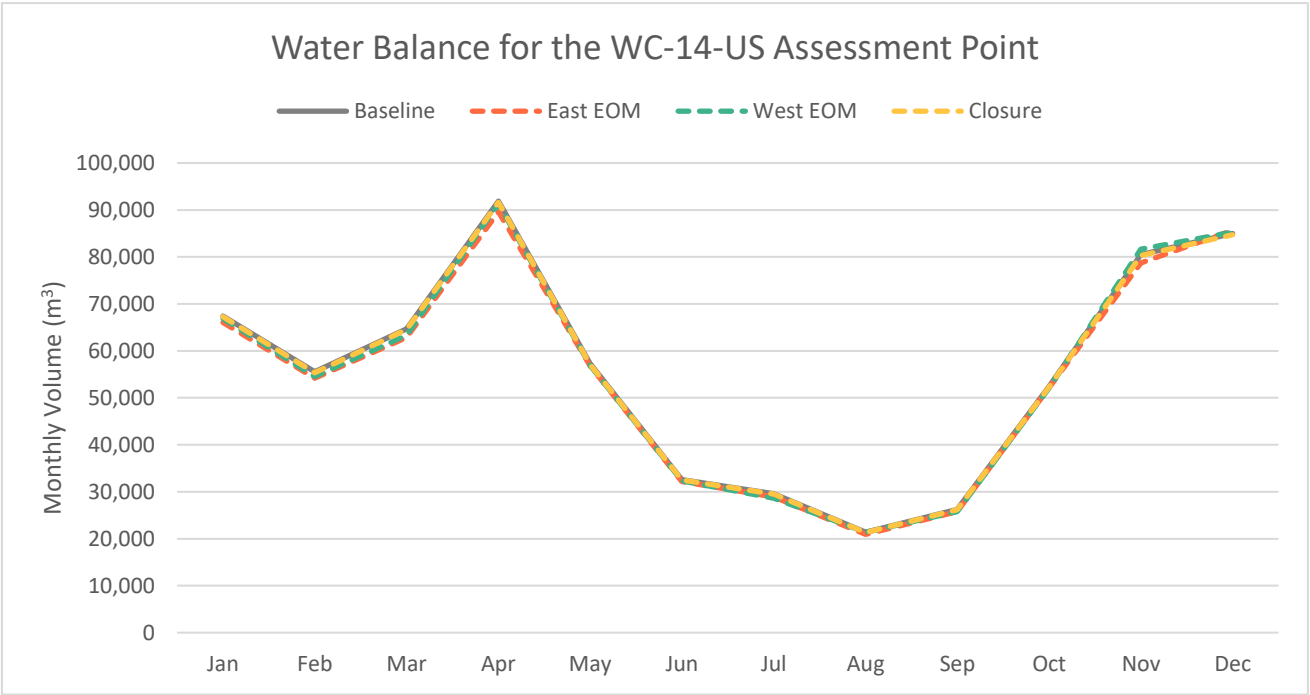


Table 14 Water Balance for the WC-14-DS1 Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	99,221	81,984	-17.4%	82,824	-16.5%	83,250	-16.1%
February	81,716	67,261	-17.7%	67,541	-17.3%	68,562	-16.1%
March	95,225	78,080	-18.0%	78,544	-17.5%	80,014	-16.0%
April	135,200	111,286	-17.7%	113,190	-16.3%	113,529	-16.0%
May	84,298	70,494	-16.4%	70,412	-16.5%	70,664	-16.2%
June	47,948	39,931	-16.7%	39,968	-16.6%	40,208	-16.1%
July	43,536	35,886	-17.6%	35,536	-18.4%	36,559	-16.0%
August	31,464	25,941	-17.6%	26,450	-15.9%	26,362	-16.2%
September	38,610	31,987	-17.2%	31,940	-17.3%	32,427	-16.0%
October	77,175	64,795	-16.0%	64,633	-16.3%	64,842	-16.0%
November	118,493	97,732	-17.5%	101,263	-14.5%	99,488	-16.0%
December	125,033	106,486	-14.8%	105,790	-15.4%	105,056	-16.0%
Annual	977,918	811,863	-17.0%	818,092	-16.3%	820,962	-16.1%

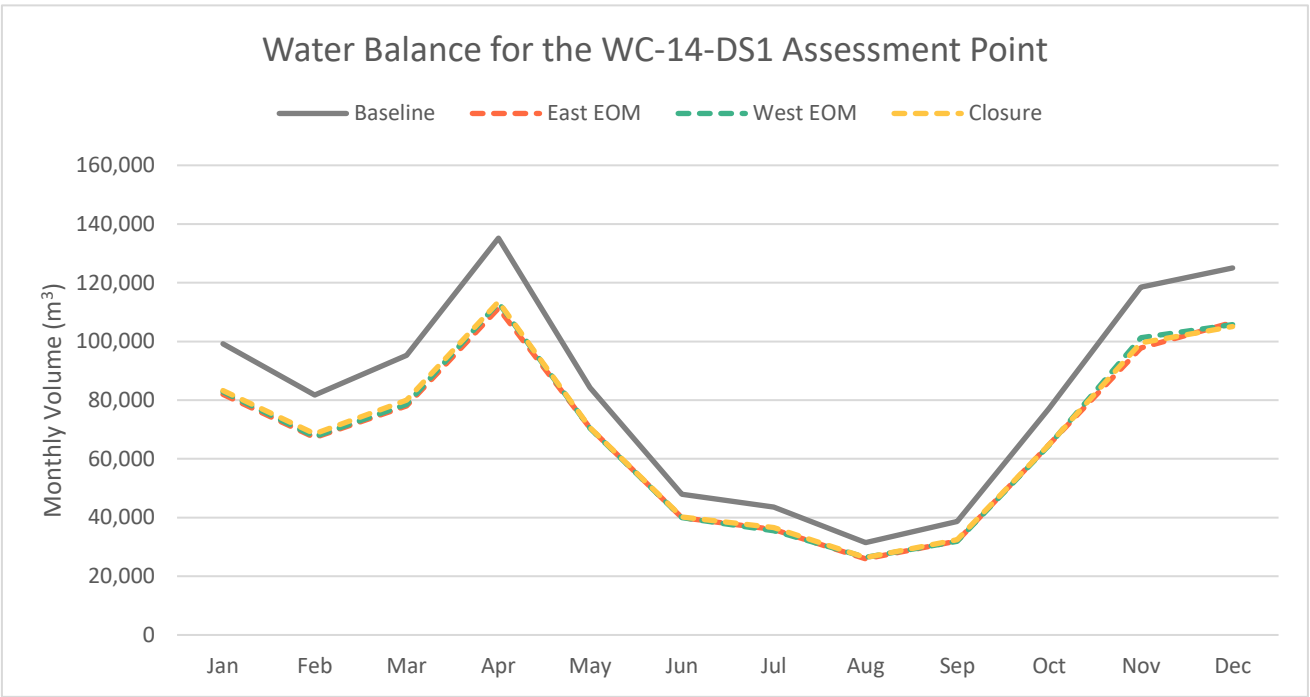


Table 15 Water Balance for the WC-14-DS2 Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	116,003	82,495	-28.9%	82,807	-28.6%	91,333	-21.3%
February	95,538	67,624	-29.2%	67,558	-29.3%	75,218	-21.3%
March	111,331	78,778	-29.2%	78,855	-29.2%	87,865	-21.1%
April	158,067	112,138	-29.1%	113,454	-28.2%	124,615	-21.2%
May	98,556	70,762	-28.2%	70,287	-28.7%	77,479	-21.4%
June	56,057	40,105	-28.5%	39,937	-28.8%	44,097	-21.3%
July	50,900	36,162	-29.0%	35,623	-30.0%	40,130	-21.2%
August	36,785	25,999	-29.3%	26,373	-28.3%	28,896	-21.4%
September	45,140	32,242	-28.6%	32,028	-29.0%	35,598	-21.1%
October	90,228	65,370	-27.6%	64,859	-28.1%	71,200	-21.1%
November	138,534	98,433	-28.9%	101,470	-26.8%	109,195	-21.2%
December	146,181	107,432	-26.5%	106,164	-27.4%	115,360	-21.1%
Annual	1,143,321	817,538	-28.5%	819,413	-28.3%	900,985	-21.2%

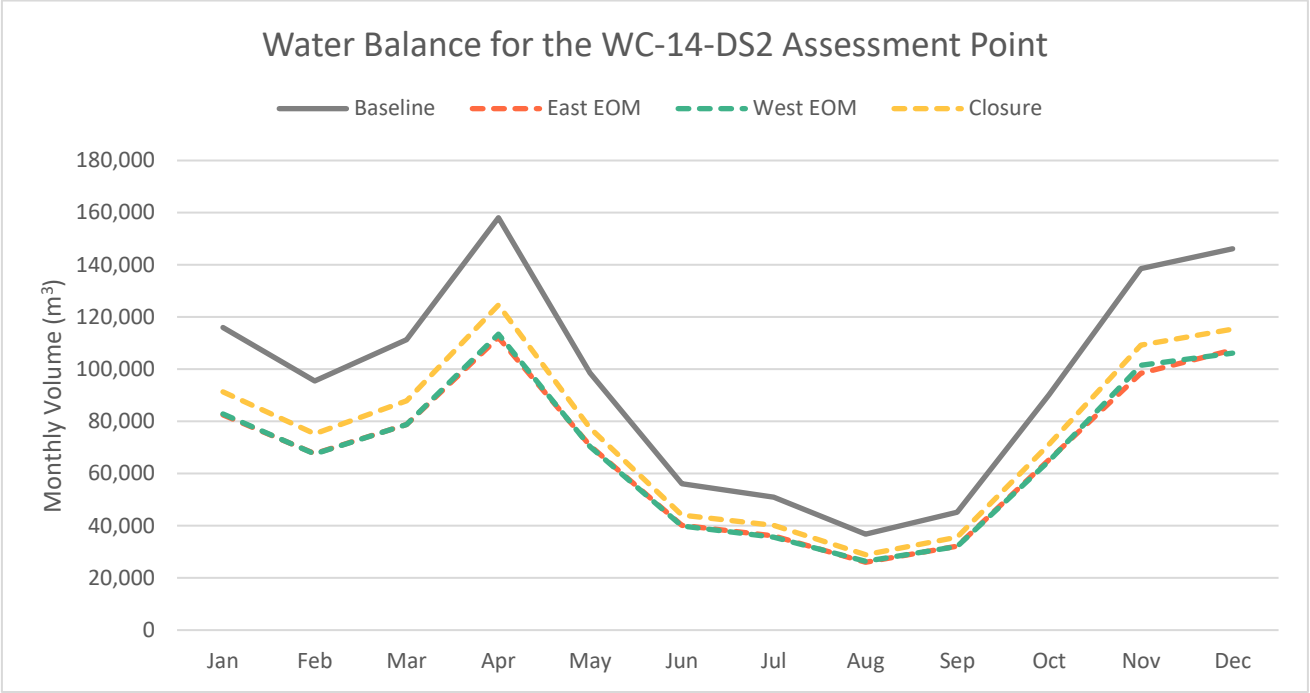


Table 16 Water Balance for the WC-14-DS3 Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	168,016	86,881	-48.3%	87,254	-48.1%	95,103	-43.4%
February	138,375	71,221	-48.5%	71,183	-48.6%	78,323	-43.4%
March	161,249	82,992	-48.5%	83,108	-48.5%	91,539	-43.2%
April	228,941	118,124	-48.4%	119,559	-47.8%	129,796	-43.3%
May	142,746	74,516	-47.8%	74,048	-48.1%	80,652	-43.5%
June	81,193	42,235	-48.0%	42,077	-48.2%	45,908	-43.5%
July	73,723	38,093	-48.3%	37,541	-49.1%	41,799	-43.3%
August	53,279	27,376	-48.6%	27,781	-47.9%	30,075	-43.6%
September	65,380	33,964	-48.1%	33,752	-48.4%	37,080	-43.3%
October	130,685	68,866	-47.3%	68,354	-47.7%	74,174	-43.2%
November	200,650	103,683	-48.3%	106,928	-46.7%	113,730	-43.3%
December	211,726	113,177	-46.5%	111,886	-47.2%	120,183	-43.2%
Annual	1,655,964	861,128	-48.0%	863,472	-47.9%	938,362	-43.3%

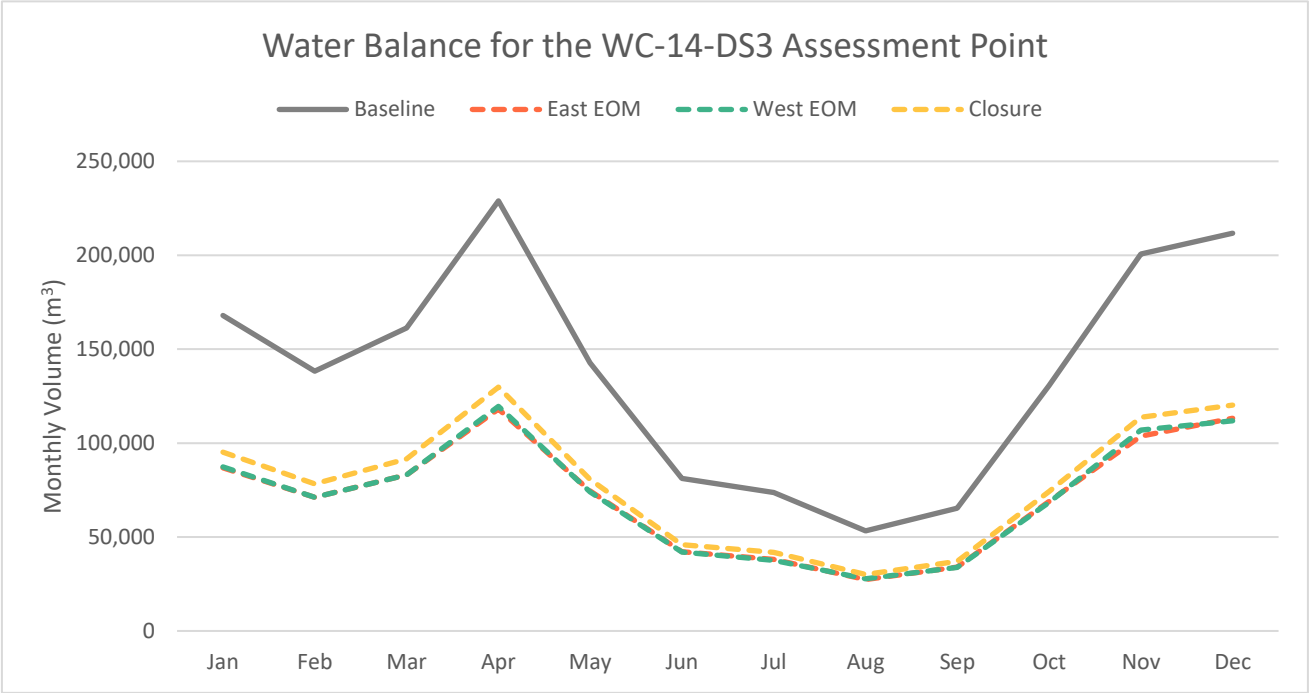


Table 17 Water Balance for the WC-14-DS4 Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	178,619	95,810	-46.4%	96,253	-46.1%	104,387	-41.6%
February	147,107	78,544	-46.6%	78,522	-46.6%	85,970	-41.6%
March	171,425	91,519	-46.6%	91,669	-46.5%	100,483	-41.4%
April	243,389	130,263	-46.5%	131,880	-45.8%	142,473	-41.5%
May	151,754	82,180	-45.8%	81,685	-46.2%	88,521	-41.7%
June	86,316	46,578	-46.0%	46,416	-46.2%	50,389	-41.6%
July	78,375	42,007	-46.4%	41,409	-47.2%	45,881	-41.5%
August	56,641	30,192	-46.7%	30,648	-45.9%	33,009	-41.7%
September	69,506	37,454	-46.1%	37,230	-46.4%	40,702	-41.4%
October	138,932	75,940	-45.3%	75,397	-45.7%	81,421	-41.4%
November	213,313	114,339	-46.4%	117,948	-44.7%	124,837	-41.5%
December	225,087	124,805	-44.6%	123,414	-45.2%	131,925	-41.4%
Annual	1,760,463	949,630	-46.1%	952,471	-45.9%	1,029,998	-41.5%

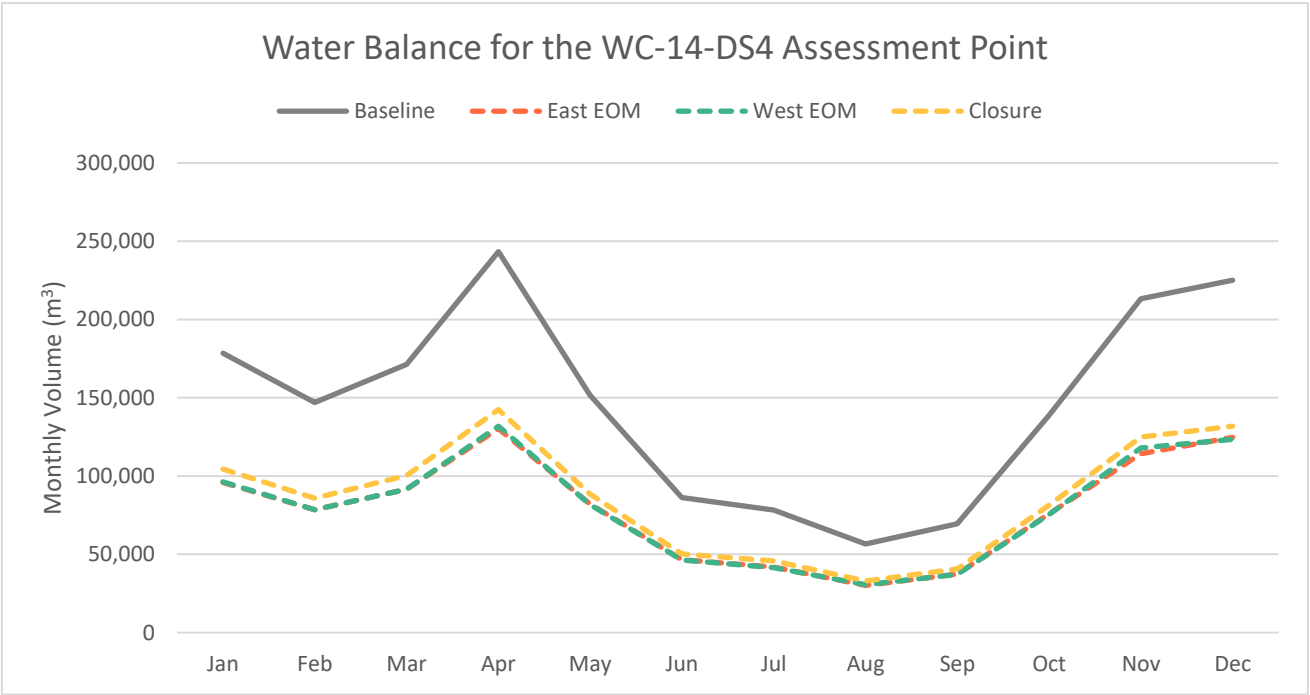


Table 18 Water Balance for the WC-9-DS Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	58,678	28,432	-51.5%	32,830	-44.1%	35,656	-39.2%
February	43,649	21,390	-51.0%	24,189	-44.6%	26,524	-39.2%
March	56,315	27,507	-51.2%	31,067	-44.8%	34,138	-39.4%
April	77,376	37,933	-51.0%	43,373	-43.9%	46,957	-39.3%
May	49,853	24,814	-50.2%	27,956	-43.9%	30,339	-39.1%
June	27,441	13,603	-50.4%	15,347	-44.1%	16,689	-39.2%
July	25,747	12,640	-50.9%	14,070	-45.4%	15,624	-39.3%
August	18,607	9,129	-50.9%	10,510	-43.5%	11,332	-39.1%
September	22,097	10,904	-50.7%	12,235	-44.6%	13,406	-39.3%
October	45,641	22,827	-50.0%	25,573	-44.0%	27,672	-39.4%
November	67,815	33,310	-50.9%	38,810	-42.8%	41,162	-39.3%
December	73,943	37,514	-49.3%	41,855	-43.4%	44,828	-39.4%
Annual	567,162	280,003	-50.6%	317,815	-44.0%	344,327	-39.3%

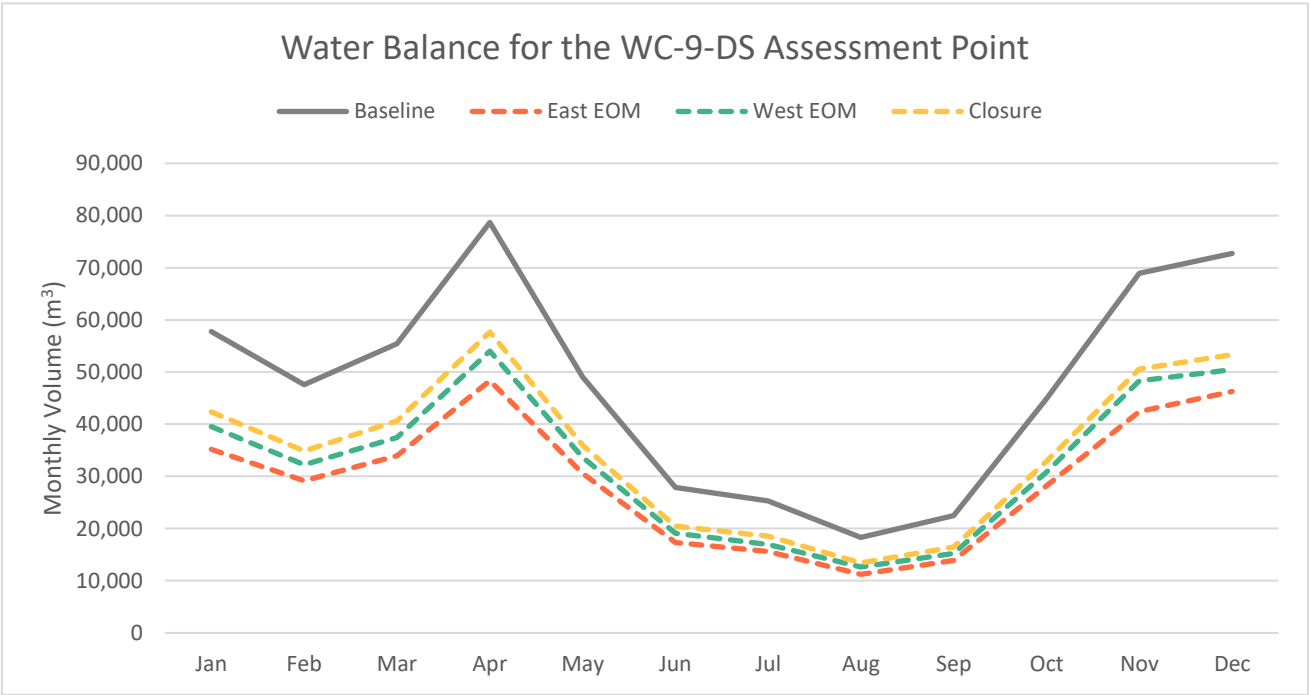


Table 19 Water Balance for the WC-51-US Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	104,802	103,570	-1.2%	104,368	-0.4%	104,771	0.0%
February	86,312	84,971	-1.6%	85,108	-1.4%	86,287	0.0%
March	100,581	98,471	-2.1%	98,810	-1.8%	100,552	0.0%
April	142,804	140,436	-1.7%	142,497	-0.2%	142,763	0.0%
May	89,039	89,124	0.1%	88,805	-0.3%	89,013	0.0%
June	50,645	50,469	-0.3%	50,386	-0.5%	50,630	0.0%
July	45,985	45,285	-1.5%	44,735	-2.7%	45,972	0.0%
August	33,233	32,822	-1.2%	33,376	0.4%	33,223	0.0%
September	40,782	40,361	-1.0%	40,202	-1.4%	40,770	0.0%
October	81,516	81,720	0.3%	81,327	-0.2%	81,492	0.0%
November	125,158	123,361	-1.4%	127,498	1.9%	125,121	0.0%
December	132,066	134,301	1.7%	133,111	0.8%	132,028	0.0%
Annual	1,032,923	1,024,890	-0.8%	1,030,226	-0.3%	1,032,621	0.0%

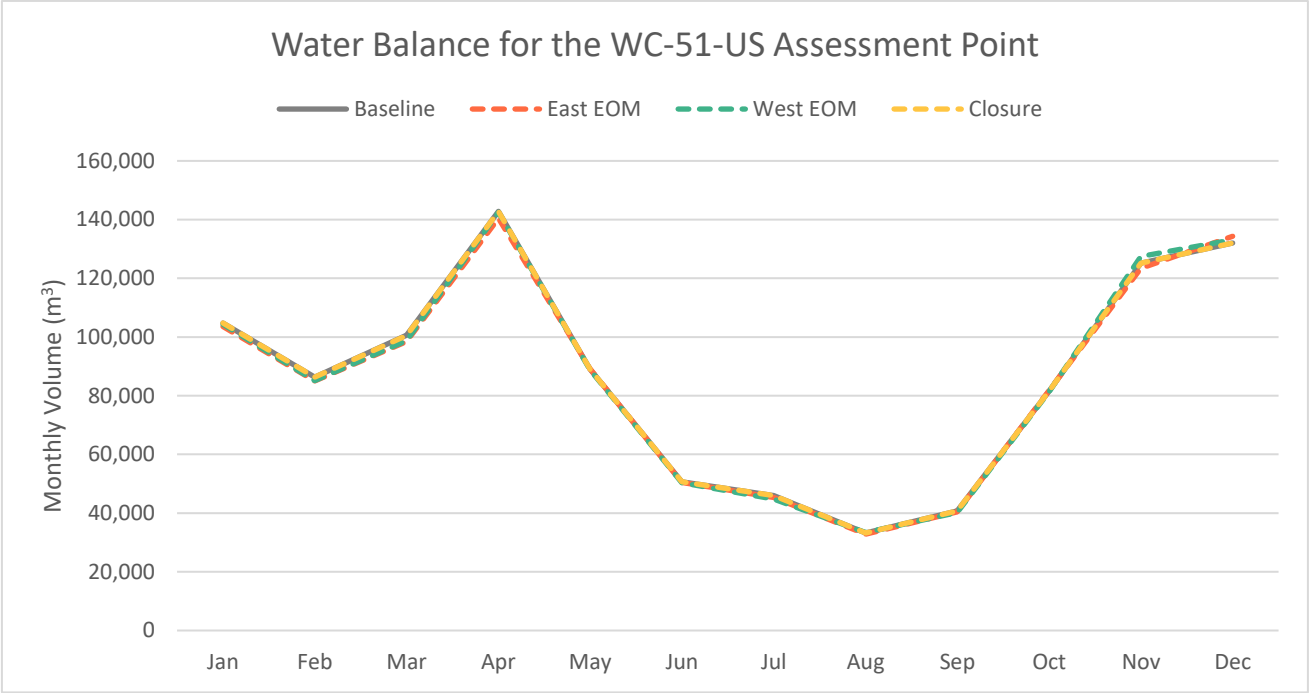


Table 20 Water Balance for the WC-20-DS1 Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	133,521	124,634	-6.7%	125,594	-5.9%	126,104	-5.6%
February	109,964	102,256	-7.0%	102,416	-6.9%	103,857	-5.6%
March	128,143	118,442	-7.6%	118,844	-7.3%	120,969	-5.6%
April	181,937	168,949	-7.1%	171,427	-5.8%	171,787	-5.6%
May	113,439	107,277	-5.4%	106,894	-5.8%	107,169	-5.5%
June	64,523	60,745	-5.9%	60,642	-6.0%	60,949	-5.5%
July	58,586	54,479	-7.0%	53,817	-8.1%	55,317	-5.6%
August	42,340	39,516	-6.7%	40,181	-5.1%	40,006	-5.5%
September	51,957	48,553	-6.6%	48,361	-6.9%	49,055	-5.6%
October	103,854	98,295	-5.4%	97,822	-5.8%	98,043	-5.6%
November	159,454	148,418	-6.9%	153,390	-3.8%	150,565	-5.6%
December	168,256	161,540	-4.0%	160,109	-4.8%	158,839	-5.6%
Annual	1,315,973	1,233,104	-6.3%	1,239,498	-5.8%	1,242,660	-5.6%

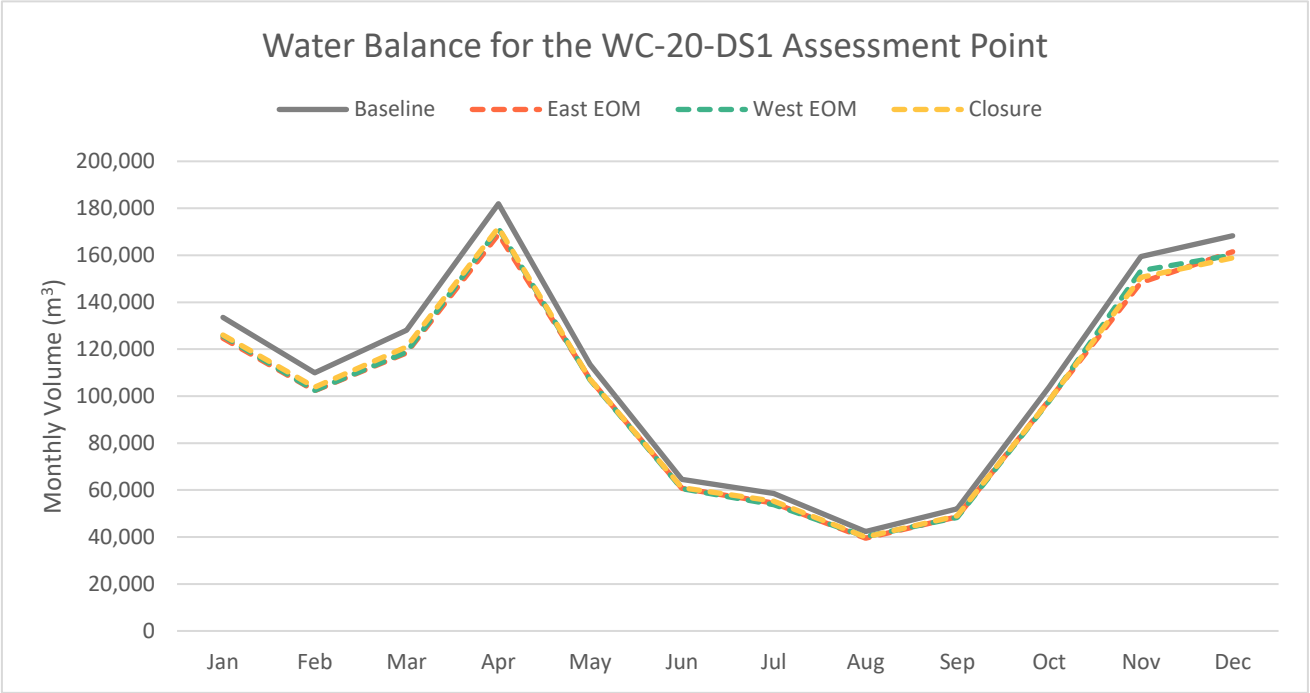


Table 21 Water Balance for the WC-20-DS2 Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	156,286	139,034	-11.0%	140,099	-10.4%	140,742	-9.9%
February	128,714	114,074	-11.4%	114,244	-11.2%	115,913	-9.9%
March	149,991	132,073	-11.9%	132,511	-11.7%	134,957	-10.0%
April	212,956	188,423	-11.5%	191,178	-10.2%	191,686	-10.0%
May	132,780	119,699	-9.9%	119,267	-10.2%	119,638	-9.9%
June	75,524	67,774	-10.3%	67,653	-10.4%	68,034	-9.9%
July	68,575	60,758	-11.4%	60,016	-12.5%	61,724	-10.0%
August	49,559	44,100	-11.0%	44,838	-9.5%	44,667	-9.9%
September	60,815	54,148	-11.0%	53,930	-11.3%	54,735	-10.0%
October	121,561	109,609	-9.8%	109,078	-10.3%	109,382	-10.0%
November	186,642	165,535	-11.3%	171,068	-8.3%	168,010	-10.0%
December	196,943	180,133	-8.5%	178,530	-9.3%	177,207	-10.0%
Annual	1,540,346	1,375,358	-10.7%	1,382,412	-10.3%	1,386,694	-10.0%

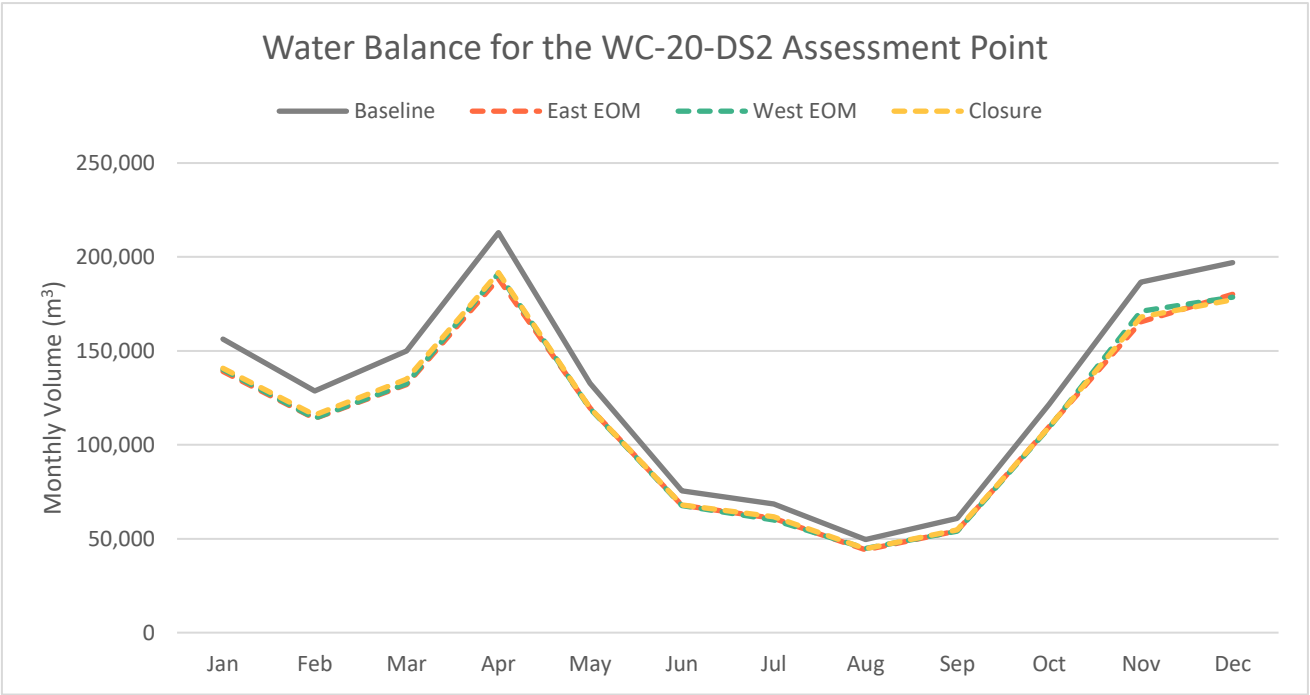


Table 22 Water Balance for the WC-16-DS Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	13,477	2,229	-83.5%	1,235	-90.8%	6,753	-49.9%
February	11,099	1,903	-82.9%	964	-91.3%	5,560	-49.9%
March	12,934	1,987	-84.6%	1,007	-92.2%	6,532	-49.5%
April	18,363	3,046	-83.4%	1,786	-90.3%	9,243	-49.7%
May	11,450	2,155	-81.2%	1,403	-87.7%	5,710	-50.1%
June	6,512	1,063	-83.7%	568	-91.3%	3,254	-50.0%
July	5,913	1,004	-83.0%	551	-90.7%	2,977	-49.7%
August	4,274	686	-84.0%	386	-91.0%	2,125	-50.3%
September	5,244	889	-83.0%	498	-90.5%	2,642	-49.6%
October	10,482	1,622	-84.5%	841	-92.0%	5,291	-49.5%
November	16,094	2,332	-85.5%	1,186	-92.6%	8,093	-49.7%
December	16,983	3,076	-81.9%	1,869	-89.0%	8,577	-49.5%
Annual	132,825	21,991	-83.4%	12,295	-90.7%	66,756	-49.7%

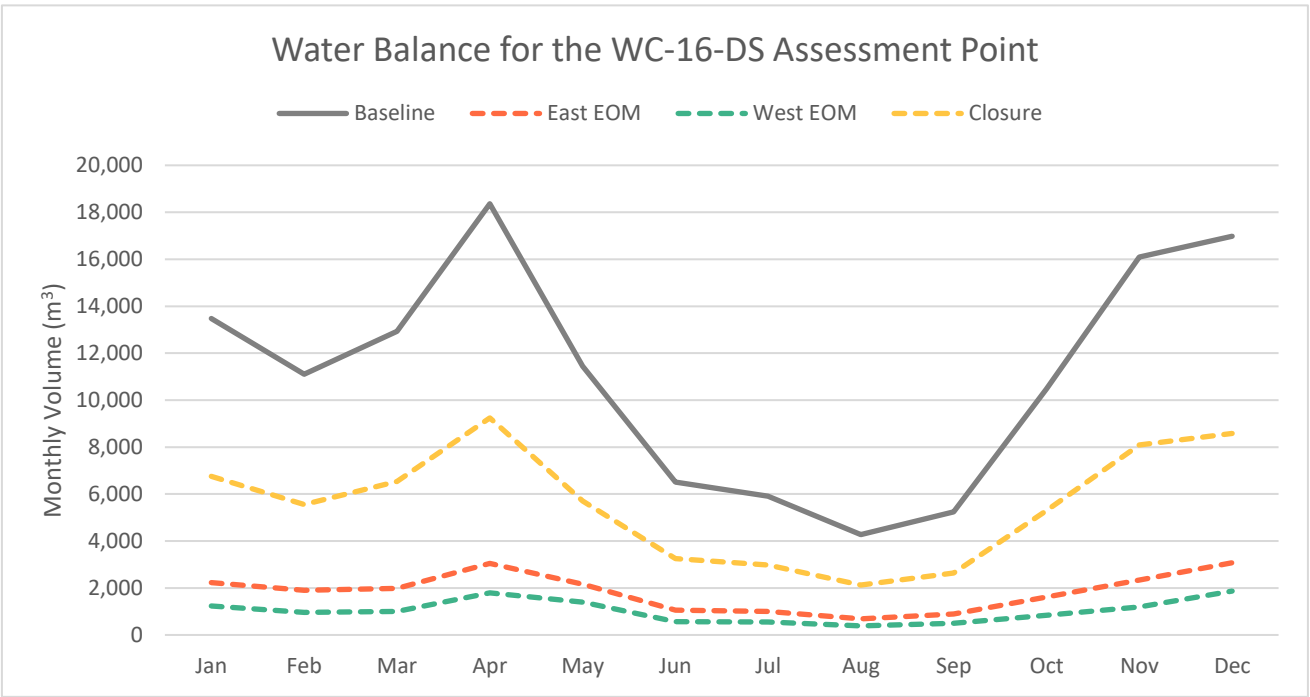


Table 23 Water Balance for the WC-20-DS3 Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	26,257	18,629	-29.0%	18,771	-28.5%	18,871	-28.1%
February	21,625	15,288	-29.3%	15,307	-29.2%	15,543	-28.1%
March	25,199	17,656	-29.9%	17,710	-29.7%	18,055	-28.4%
April	35,778	25,213	-29.5%	25,579	-28.5%	25,670	-28.3%
May	22,308	16,059	-28.0%	16,001	-28.3%	16,064	-28.0%
June	12,688	9,089	-28.4%	9,071	-28.5%	9,130	-28.0%
July	11,521	8,130	-29.4%	8,030	-30.3%	8,266	-28.3%
August	8,326	5,923	-28.9%	6,020	-27.7%	6,002	-27.9%
September	10,217	7,244	-29.1%	7,214	-29.4%	7,328	-28.3%
October	20,423	14,654	-28.2%	14,583	-28.6%	14,635	-28.3%
November	31,357	22,158	-29.3%	22,893	-27.0%	22,504	-28.2%
December	33,088	24,083	-27.2%	23,868	-27.9%	23,709	-28.3%
Annual	258,787	184,126	-28.9%	185,046	-28.5%	185,777	-28.2%

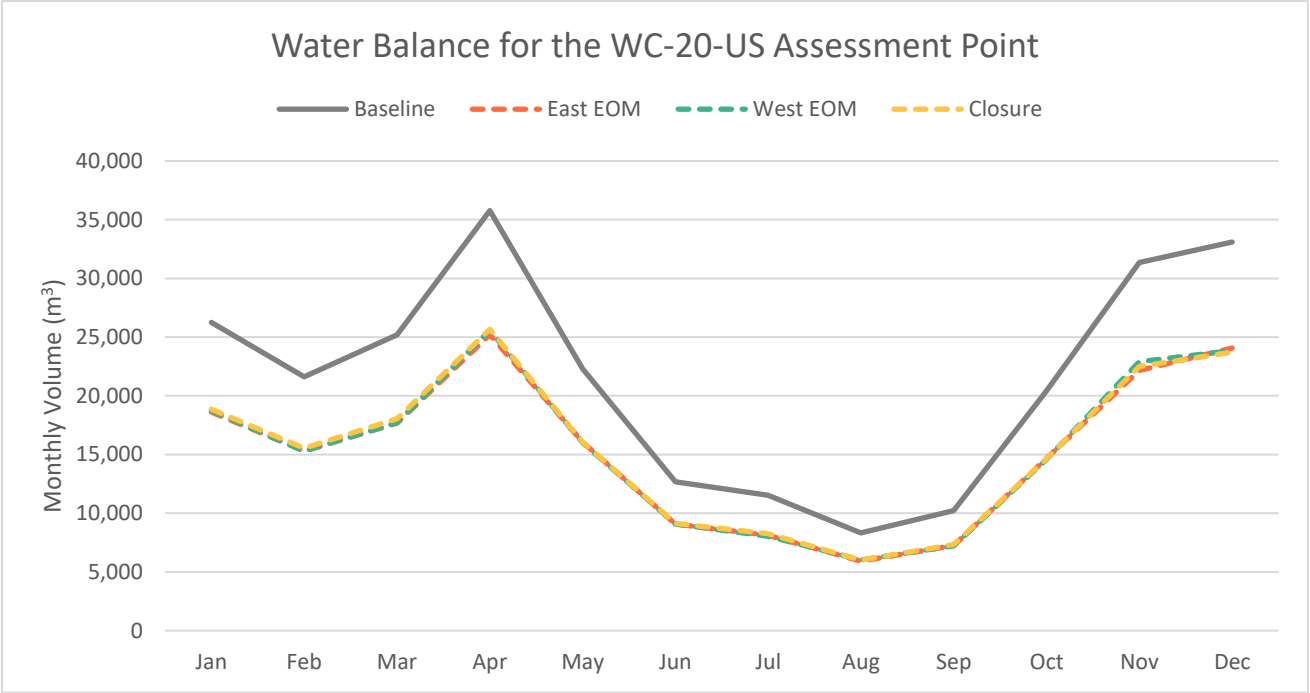


Table 24 Water Balance for the WC-3-DS1 Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	28,631	3,128	-89.1%	9,939	-65.3%	9,923	-65.3%
February	23,579	2,595	-89.0%	8,105	-65.6%	8,172	-65.3%
March	27,477	2,807	-89.8%	9,446	-65.6%	9,558	-65.2%
April	39,012	4,336	-88.9%	13,599	-65.1%	13,549	-65.3%
May	24,324	3,001	-87.7%	8,439	-65.3%	8,411	-65.4%
June	13,835	1,468	-89.4%	4,793	-65.4%	4,789	-65.4%
July	12,563	1,423	-88.7%	4,270	-66.0%	4,363	-65.3%
August	9,079	966	-89.4%	3,168	-65.1%	3,136	-65.5%
September	11,141	1,232	-88.9%	3,838	-65.5%	3,871	-65.3%
October	22,269	2,348	-89.5%	7,771	-65.1%	7,745	-65.2%
November	34,192	3,390	-90.1%	12,164	-64.4%	11,871	-65.3%
December	36,079	4,375	-87.9%	12,719	-64.7%	12,549	-65.2%
Annual	282,181	31,068	-89.0%	98,251	-65.2%	97,938	-65.3%

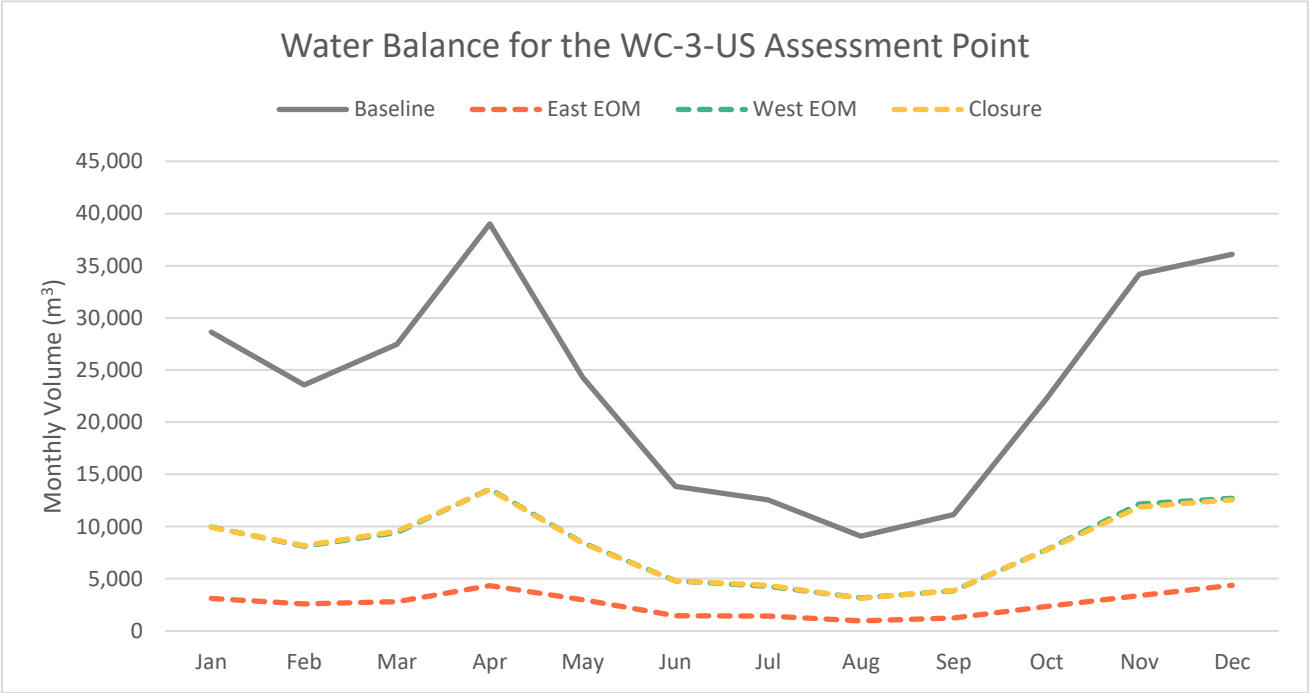


Table 25 Water Balance for the WC-3-DS2 Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	41,215	12,097	-70.6%	20,281	-50.8%	21,140	-48.7%
February	33,943	9,949	-70.7%	16,542	-51.3%	17,410	-48.7%
March	39,555	11,398	-71.2%	19,291	-51.2%	20,351	-48.6%
April	56,160	16,559	-70.5%	27,765	-50.6%	28,854	-48.6%
May	35,016	10,692	-69.5%	17,218	-50.8%	17,926	-48.8%
June	19,916	5,823	-70.8%	9,781	-50.9%	10,204	-48.8%
July	18,084	5,365	-70.3%	8,718	-51.8%	9,292	-48.6%
August	13,069	3,784	-71.0%	6,462	-50.6%	6,684	-48.9%
September	16,038	4,747	-70.4%	7,837	-51.1%	8,243	-48.6%
October	32,057	9,477	-70.4%	15,868	-50.5%	16,490	-48.6%
November	49,220	14,102	-71.3%	24,834	-49.5%	25,282	-48.6%
December	51,936	16,105	-69.0%	25,974	-50.0%	26,718	-48.6%
Annual	406,209	120,099	-70.4%	200,571	-50.6%	208,594	-48.6%

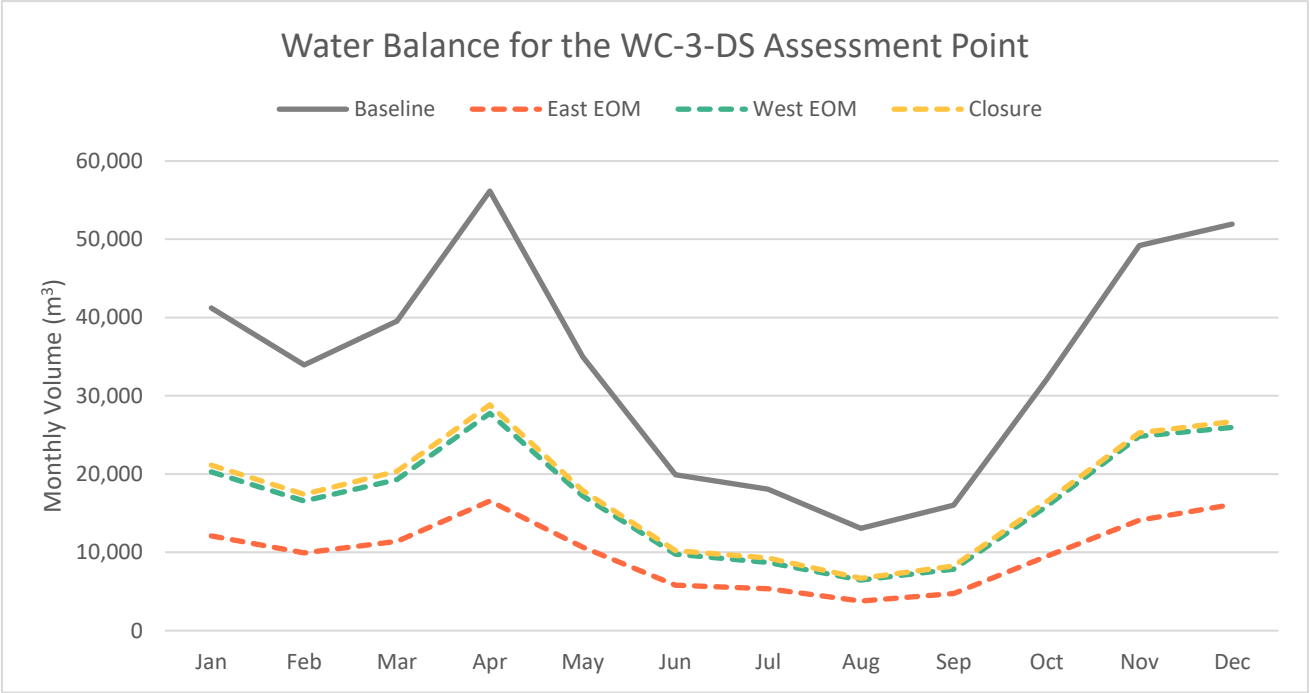


Table 26 Water Balance for the WC-55-DS Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	9,102	7,450	-18.2%	7,541	-17.1%	7,828	-14.0%
February	7,496	6,113	-18.4%	6,151	-18.0%	6,447	-14.0%
March	8,736	7,082	-18.9%	7,138	-18.3%	7,505	-14.1%
April	12,403	10,102	-18.6%	10,295	-17.0%	10,661	-14.0%
May	7,733	6,413	-17.1%	6,419	-17.0%	6,656	-13.9%
June	4,399	3,631	-17.4%	3,642	-17.2%	3,785	-14.0%
July	3,994	3,257	-18.4%	3,232	-19.1%	3,433	-14.0%
August	2,886	2,362	-18.2%	2,413	-16.4%	2,485	-13.9%
September	3,542	2,903	-18.0%	2,904	-18.0%	3,044	-14.1%
October	7,080	5,878	-17.0%	5,875	-17.0%	6,083	-14.1%
November	10,870	8,874	-18.4%	9,212	-15.3%	9,344	-14.0%
December	11,470	9,660	-15.8%	9,616	-16.2%	9,854	-14.1%
Annual	89,710	73,727	-17.8%	74,437	-17.0%	77,124	-14.0%

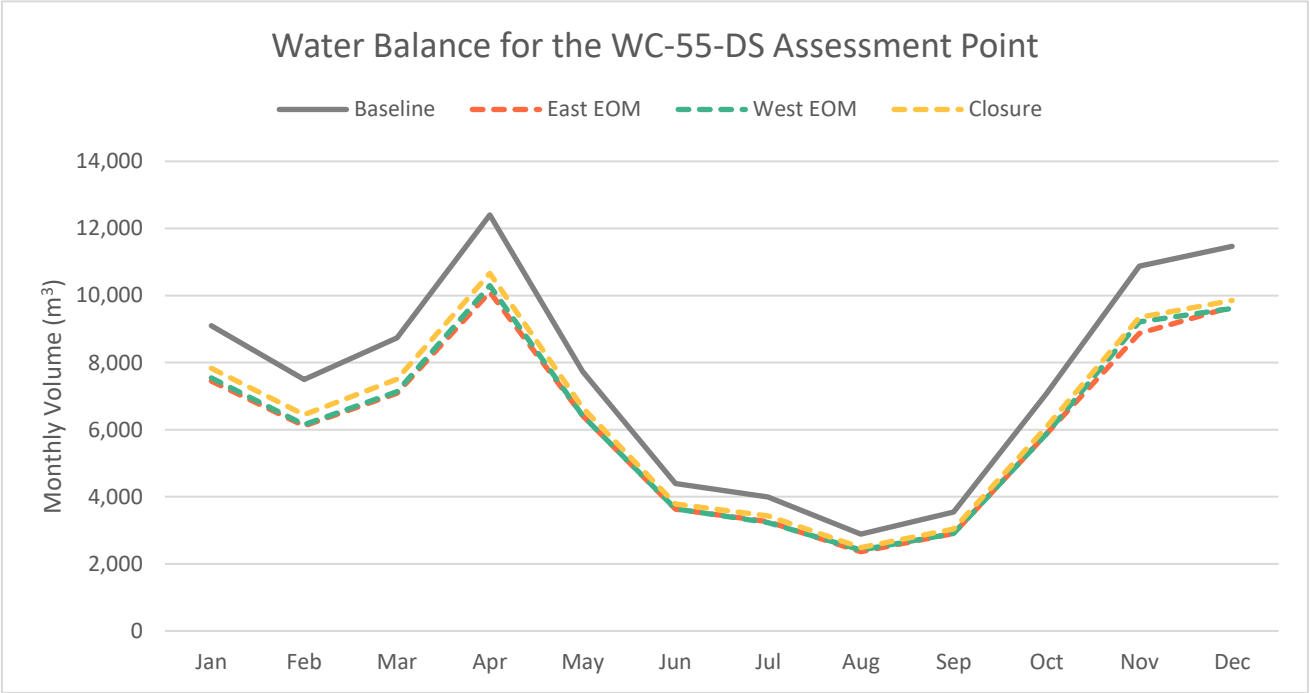


Table 27 Water Balance for the WC-10-DS Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	6,984	5,216	-25.3%	2,614	-62.6%	2,904	-58.4%
February	5,752	2,101	-63.5%	2,132	-62.9%	2,392	-58.4%
March	6,702	2,409	-64.1%	2,449	-63.5%	2,757	-58.9%
April	9,516	3,449	-63.8%	3,549	-62.7%	3,933	-58.7%
May	5,933	2,213	-62.7%	2,238	-62.3%	2,484	-58.1%
June	3,375	1,251	-62.9%	1,266	-62.5%	1,409	-58.3%
July	3,064	1,112	-63.7%	1,114	-63.7%	1,266	-58.7%
August	2,215	819	-63.0%	844	-61.9%	930	-58.0%
September	2,717	990	-63.6%	1,000	-63.2%	1,122	-58.7%
October	5,432	2,000	-63.2%	2,019	-62.8%	2,236	-58.8%
November	8,340	3,034	-63.6%	3,178	-61.9%	3,450	-58.6%
December	8,800	3,287	-62.7%	3,304	-62.5%	3,621	-58.9%
Annual	68,829	27,881	-59.5%	25,707	-62.7%	28,502	-58.6%

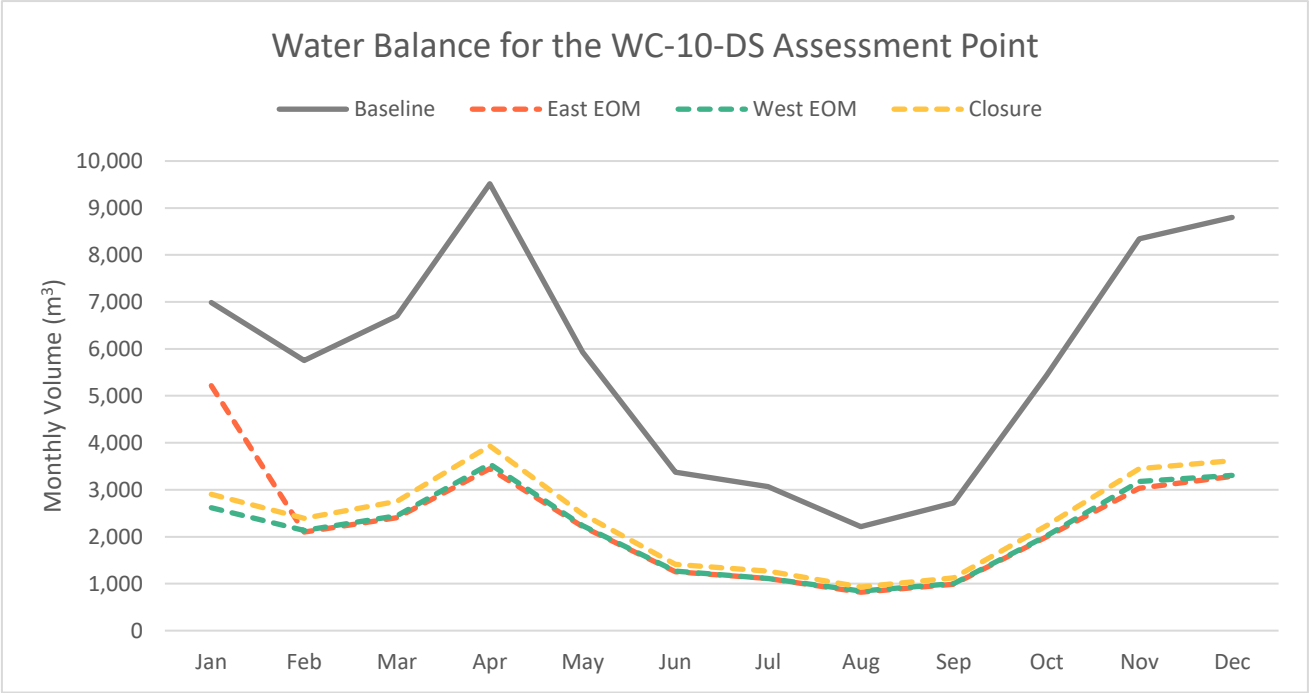


Table 28 Water Balance for the WC-11-DS Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	60,243	48,344	-19.8%	49,725	-17.5%	49,224	-18.3%
February	49,615	41,782	-15.8%	40,545	-18.3%	40,541	-18.3%
March	57,816	48,264	-16.5%	46,953	-18.8%	47,147	-18.5%
April	82,087	68,914	-16.0%	67,788	-17.4%	67,000	-18.4%
May	51,182	43,887	-14.3%	42,364	-17.2%	41,873	-18.2%
June	29,112	24,840	-14.7%	24,021	-17.5%	23,805	-18.2%
July	26,433	22,221	-15.9%	21,280	-19.5%	21,574	-18.4%
August	19,103	16,185	-15.3%	15,934	-16.6%	15,639	-18.1%
September	23,442	19,800	-15.5%	19,119	-18.4%	19,129	-18.4%
October	46,858	40,057	-14.5%	38,658	-17.5%	38,215	-18.4%
November	71,943	60,562	-15.8%	60,665	-15.7%	58,730	-18.4%
December	75,915	65,830	-13.3%	63,271	-16.7%	61,909	-18.4%
Annual	593,749	500,687	-15.7%	490,323	-17.4%	484,784	-18.4%

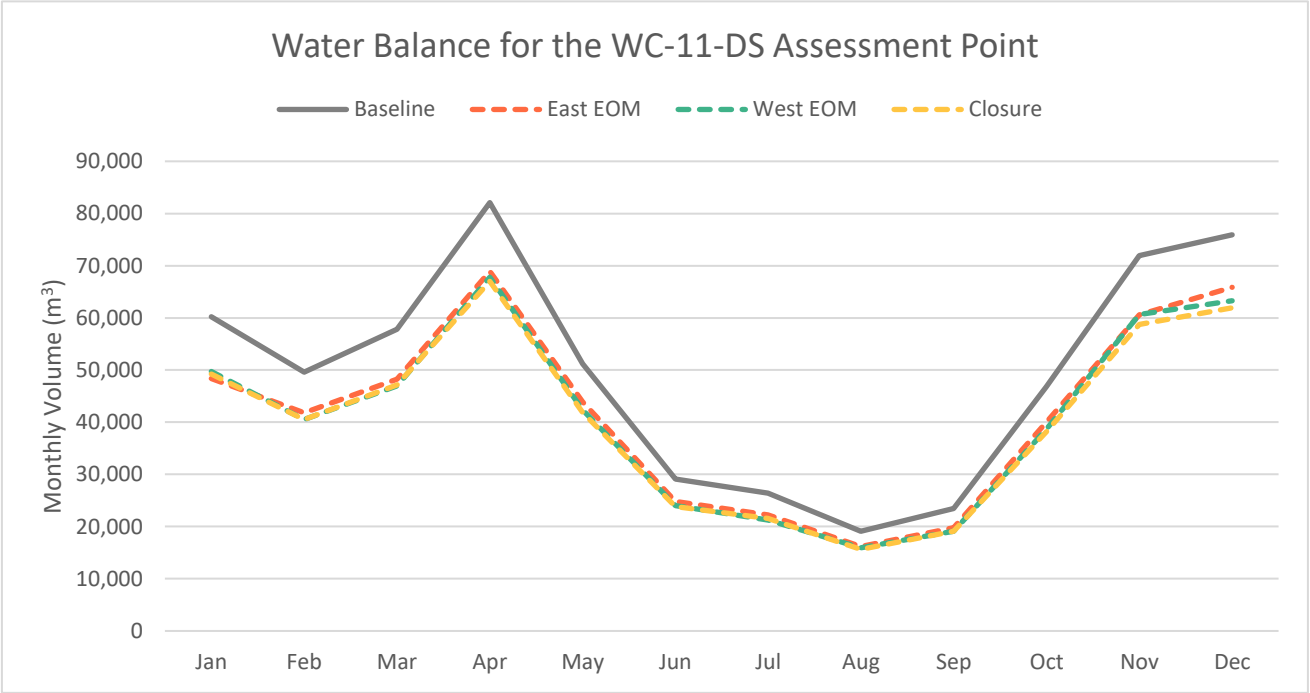
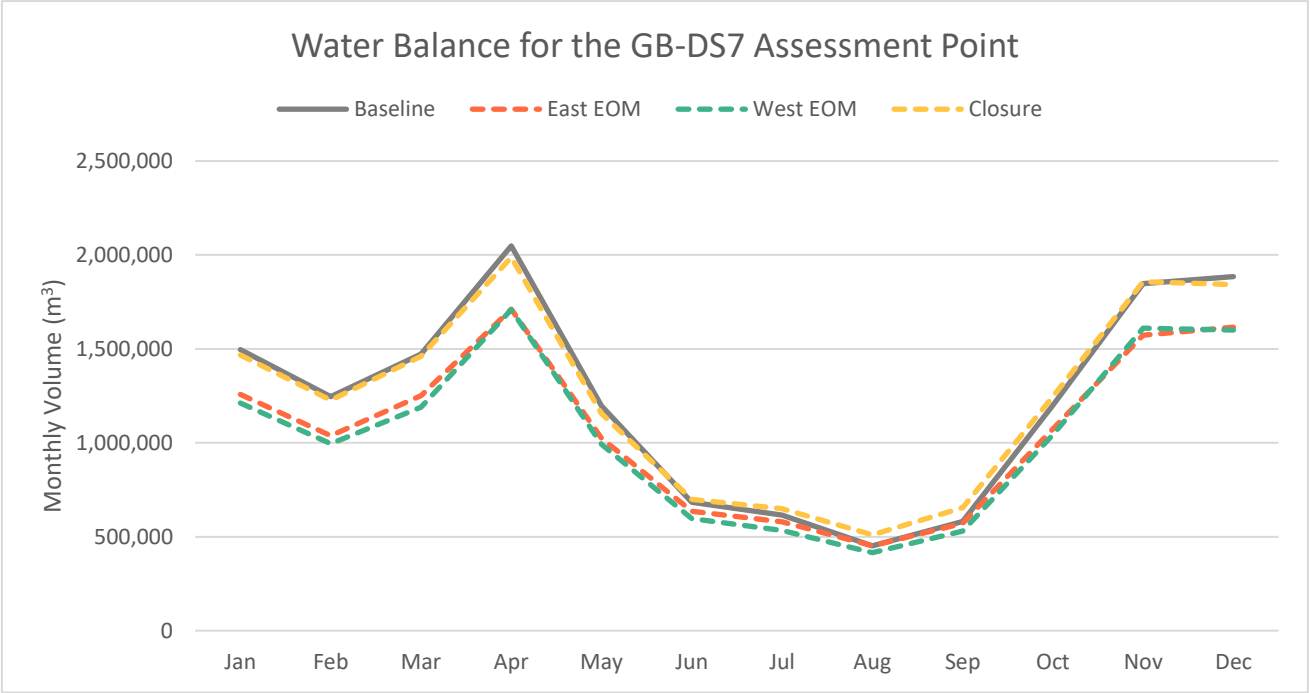


Table 29 Water Balance for the GB-DS7 Assessment Point

Date	Baseline	East EOM		West EOM		Closure	
	Volume (m3)	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline	Volume (m3)	Percent Change from Baseline
January	1,495,619	1,257,776	-15.9%	1,211,017	-19.0%	1,466,982	-1.9%
February	1,245,026	1,037,264	-16.7%	994,821	-20.1%	1,226,561	-1.5%
March	1,472,214	1,250,361	-15.1%	1,189,344	-19.2%	1,460,191	-0.8%
April	2,048,109	1,711,327	-16.4%	1,708,757	-16.6%	1,987,561	-3.0%
May	1,197,002	1,024,486	-14.4%	992,529	-17.1%	1,154,583	-3.5%
June	682,651	635,783	-6.9%	596,209	-12.7%	699,371	2.4%
July	614,350	578,655	-5.8%	532,709	-13.3%	649,716	5.8%
August	451,292	451,967	0.1%	415,158	-8.0%	510,177	13.0%
September	580,874	571,547	-1.6%	529,941	-8.8%	654,413	12.7%
October	1,199,194	1,072,709	-10.5%	1,043,116	-13.0%	1,245,622	3.9%
November	1,847,680	1,572,517	-14.9%	1,610,153	-12.9%	1,857,045	0.5%
December	1,884,942	1,615,836	-14.3%	1,600,621	-15.1%	1,841,334	-2.3%
Annual	14,718,953	12,780,226	-13.2%	12,424,377	-15.6%	14,753,558	0.2%





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→ **The Power of Commitment**

Appendix F.6

**Assessment of Impacts to the Hydraulic
Regime of Gold Brook**

Technical Memorandum

May 24, 2022

To	Deidre Puddister, Signal Gold Inc.	Contact No.	11222385
From	Sarah Irwin, Rodrigo Freire De Macedo	Project No.	11222385
Project Name	Goldboro Gold Project		
Subject	Assessment of Impacts to the Hydraulic Regime of Gold Brook		

1. Introduction

GHD Limited (GHD) was retained by Anaconda Mining (Anaconda) to develop a Mine Water Management Plan (MWMP) for the Goldboro Gold Project (Project) in Goldboro, Guysborough County, Nova Scotia. The MWMP is in support of the Environmental Assessment Registration Document (EARD). As part of the MWMP, GHD developed a combined hydrology and water balance model with the GoldSIM software to predict the impacts of development of the Project on the nearby watercourses (i.e., Gold Brook) as it relates to streamflow.

Changes in the streamflow regime of Gold Brook due to the Project development could have an impact on fish and fish habitat in this stream as it relates to hydraulic parameters of interest such as water depths and flow velocities. To assess these impacts, hydraulic modelling was carried out to estimate the impacts of the West Pit End-of-Mine development (i.e., West EOM) on the hydraulic regime of the Gold Brook reach between Gold Brook Lake (upstream) and Seal Harbour Lake (downstream). This scenario was selected as representative of a worse-case scenario from a flow reduction prospective during the development of the mine.

This document presents the methodology and results of these assessments.

2. Project and Mine Water Management Overview

The Project is located approximately 175 kilometres (km) northeast of Halifax, 60 km southeast of Antigonish, and 1.6 km northeast of the community of Goldboro on the eastern shore of Isaac's Harbour, in Guysborough County. Anaconda proposes to develop the Project as a 4,000-tonne per day (tpd) mine and processing facility. For the purposes of the EARD, a Project Area (PA) was defined as the footprint of the Project related infrastructure plus a buffer zone of approximately 200 meters (m). The mine plan includes two open pits (East Pit and West Pit), an ore processing facility, a Tailings Management Facility (TMF), three Waste Rock Storage Areas (WRSAs), overburden and organic stockpiles, support buildings, and associated infrastructure. The anticipated mine life for extraction of ore is approximately 8 years for the East Pit and 11 years for the West Pit.

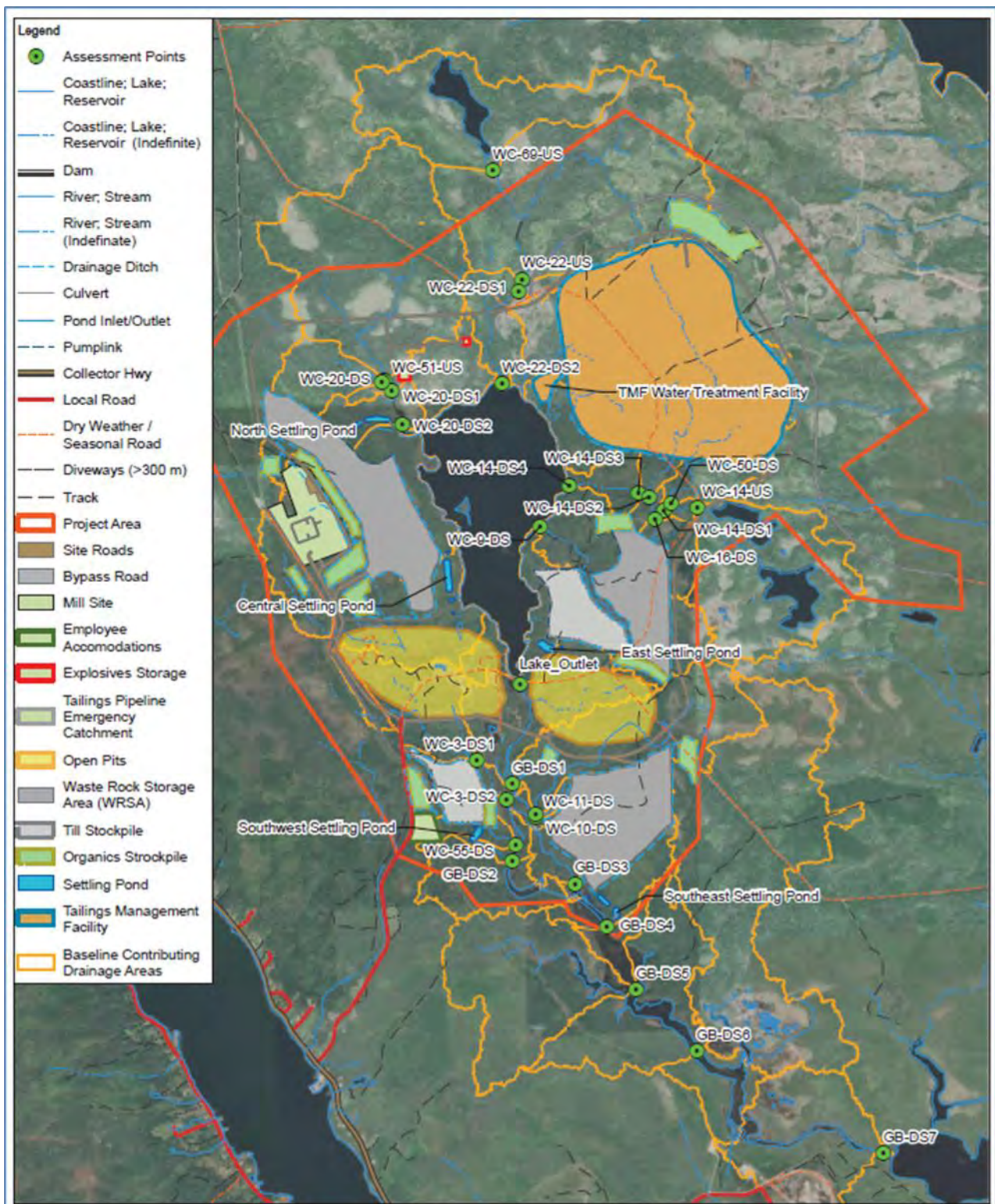


Figure 1 Mine Development Features and Drainage Catchments

The scope of the Project includes activities associated with construction, operation, and closure. Project construction activities will include clearing and grubbing the overburden and organic stockpiles, WRSAs, pit, plant, and TMF areas, and construction of the initial lift of the TMF, plant site, secondary access roads, construction laydowns, Run-of-Mine (ROM) pad, surface water management and other site infrastructure. The operation phase will include conventional ore extraction methods (drilling, blasting, loading, and hauling), ore processing, and waste management. ROM ore will go directly to the crusher while stockpiled high-grade and low-grade ore will be progressively processed throughout the mine life. Non-ore bearing waste rock, not used for construction or backfill, will be stockpiled at its final disposal point, managed, and reclaimed in place. The closure phase will include earthworks and demolition required to return the Project Area to a safe, stable, and vegetated state, and all monitoring and treatment, as required. Reclamation and Closure Plan requirements are governed by the Nova Scotia Mineral Resources Act.

The Project is located within the Gold Brook catchment, which drains to Seal Harbour Lake and ultimately to the Atlantic Ocean at Seal Harbour. The total catchment area at the point where Gold Brook drains into Seal Harbour Lake is approximately 1,530 hectares (ha). The catchment is comprised of numerous lakes, wetlands, watercourses, and forested lands. The largest water body in the catchment is Gold Brook Lake, which has a surface area of approximately 80 ha. Figure 1 presents a map of the Gold Brook catchment including field verified and provincially mapped watercourses.

The proposed mine water management system discharges through seven (7) water treatment facilities to the natural environment, including the north settling pond, central settling pond, southeast settling pond, southwest settling pond, East Pit, West Pit, and TMF water treatment facility. Figure 1 also shows a map of the proposed mine features including the sources of mine contact water, treatment facilities, and discharge points to Gold Brook Lake and Gold Brook.

3. Balance Modelling

A combined hydrology and water balance model was developed in GoldSIM to predict the impacts of development of the Project on the nearby watercourses as it relates to streamflow. GoldSIM is a highly graphical program used for carrying out dynamic, computationally intensive, but well-defined network models such as water balances and mass balances. GoldSim permits inputs to be entered as probability distributions, performs Monte Carlo simulations, tracks outputs from those simulations, and provides a graphical interface to facilitate the review and identification of interactions between system components.

This water balance model was run on a monthly basis for a span of 50-years, starting with baseline conditions and continuing until post-closure and post-reclamation conditions. This water balance assessment has been used to determine the predicted impacts of Project development on the local water bodies such as Gold Brook and Gold Brook Lake, as well as several other smaller stream networks around the PA. In addition, the water balance model produced outputs such as flow rates from different areas of infrastructure and flow rates to each discharge point. The infrastructure layout was varied on a yearly basis, capturing changes to the stockpile sizes, pit dimensions, direction of water and reclamation activities on a yearly time scale. More details on the Water Balance Model can be found in the Water Balance Assessment report (GHD, 2022).

4. Hydraulic Modelling

A 2-dimensional hydraulic model (using the HEC-RAS software) was developed to simulate the 10th percentile and average flow conditions along the Gold Brook for the West End-of-Mine (EOM) conditions and Baseline conditions scenarios. The 10th percentile flow conditions were chosen to be representative of low flow conditions in the catchment. This hydraulic model produces parameters of interest for the assessment of impacts on the hydraulic regime of a stream, such as water levels and flow velocities. A 2-dimensional model approach was

required to properly simulate the braided channel configuration of the brook immediately downstream of the Gold Brook Lake outlet. Figure 2 presents the extents of the 2-dimensional model.

4.1 Hydrodynamic Model

The assessment of impacts in the hydraulic regime of Gold Brook was done using the 2D capabilities of the computer model HEC-RAS (USACE, 2021). HEC-RAS is a computer program that models the hydraulics of water flow through natural rivers and is widely used to model hydraulic parameters of interest such as water surface profiles and flow velocities in river and river systems.

By resolving the Shallow Water Equations (SWE) or Diffusion Wave Equations (DWE), the program determines the characteristics of the resulting flow as it propagates downstream. Manning's roughness coefficients are required by the HEC-RAS model to calculate energy losses due to friction between cross-sections. Manning coefficients were estimated based on analysis of aerial imagery and consultation of available literature. Manning's coefficients of 0.04 was chosen for the main river channel.

GHD has used this software in many applications involving the assessment of free-surface flows including the assessment of river and river systems for environmental analysis, floodplain modelling, flow routing simulations through reservoirs and design of cross-drainage and open channel hydraulic structures. HEC-RAS is hydrodynamic model capable of deriving many hydraulic parameters of interest for environmental applications including water depths, flow velocities and water-temperature/water-quality.

A limitation of the hydrologic model is that it does not account for attenuation of water within Gold Brook Lake; as a result, flow data at both baseline and at each project phase is shown as relatively low based on precipitation data; when in reality, precipitation is naturally attenuated in the lake and substantial changes in Gold Brook have not been observed and are not expected. To account for the lack of lake attenuation in the model, streamflow at the Gold Brook assessment points are presented as moving 7-day averages; presented on a daily time step. Even with the 7-day averaging to simulate lake attenuation, artificial spikes in baseline and Project phase stream flow still occur; especially when baseline flow is very low. This limitation in lake attenuation of flow is not present in the HEC-RAS hydraulic model; which further justifies inclusion of that method to evaluate effects of the Project on fish habitat.

4.1.1 Topographic and Bathymetric Data

The geometric representation of the Gold Brook main channel and of the adjacent flood prone areas is required for the hydrodynamic model that is used to estimate flow depths, extents, and velocities. Geometric details are represented with digital terrain models, which assemble available topographic and bathymetric data for the studied site.

The Digital Elevation Model (DEM) of the study area has 1-meter by 1-meter planar resolution that provides a generalized representation of both surface and ground features. The obtained DEM was hydrologically corrected. The depressions in the DEM were filled. The stream network was burned into the DEM using the available bathymetric transects so that there would be a continuous flow path.



Figure 2 2-Dimensional Hydrodynamic Model Domain

4.1.2 Boundary Conditions

The hydrodynamic model also requires upstream and downstream boundary conditions to calculate the hydraulic conditions in the reach. Upstream boundary conditions used in the hydrodynamic model were flows derived from the water balance model for Baseline and West EOM conditions (refer to Table 1 **Error! Reference source not found.**). Downstream boundary condition is an assumed normal water level of 29.82 m at Seal Harbour Lake. Figure 2 presents the extents of the 2-dimentional model as well as the locations of the boundary conditions.

For low flow conditions (10th percentile), there is an expected increase of flows from baseline to West EOM conditions. For average flow conditions, there is an expected decrease of flows from baseline to West EOM conditions. The various mine infrastructure alters the hydrological response/regime of the catchment in the sense that it tends to store water during low flow conditions, thus gradually releasing flows overtime and therefore regulating the rainfall-runoff response of the catchment.

Table 1 Flow Boundary Conditions for WBM

Catchment	Flows (m ³ /s)						
	10 th Percentile Conditions			Average Conditions			
	Baseline (A)	West EOM (B)	(B) - (A)	Baseline (A)	West EOM (B)	(B) - (A)	
GB_DS5	0.007	0.022	0.015	0.378	0.302	-0.076	
GB_DS6	0.008	0.023	0.015	0.394	0.319	-0.075	
GB_DS7	0.007	0.024	0.017	0.464	0.393	-0.071	

Table 1 Flow Boundary Conditions for WBM

Catchment	Flows (m ³ /s)						
	10 th Percentile Conditions				Average Conditions		
	Baseline (A)	West (B)	EOM	(B) - (A)	Baseline (A)	West (B)	EOM (B) - (A)
GB_DS4	0.050	0.064		0.014	0.355	0.276	-0.079
From Gold Brook Lake Outlet	0.001	0.019		0.018	0.292	0.235	-0.057

4.2 Simulation Results and Impacts to Hydraulic Regime

Figure 2 and Figure 4 respectively present the Water Surface Elevation (WSE) longitudinal profiles for the 10th percentile and average flow conditions, as well as the difference in elevation from baseline to EOM conditions. The channel stationing presented in these longitudinal profiles is shown in Figure 5 below.

As shown in these Figures 3 and 4, a maximum difference of approximately 15 centimetres (increase) occur for the 10th percentile flow conditions (scenario chosen to be representative of low conditions in the Gold Brook). For low flow conditions (10th percentile), there is an expected increase of flows from baseline to West EOM conditions. This increase of 15 centimetres is expected to occur only in the ponded area in the middle of the brook reach where the channel is wide or not well defined (approximately between channel stationing 1,600 m and 4,000 m).

For average flow conditions, the difference in water levels can be considered negligible (i.e., approximately 4 centimetres decrease in water levels). This decrease of 4 centimetres in water levels are estimated to occur only in the ponded areas. Elsewhere in the brook system water level decreases are less than that. For average flow conditions, there is an expected decrease of flows from baseline to West EOM conditions.

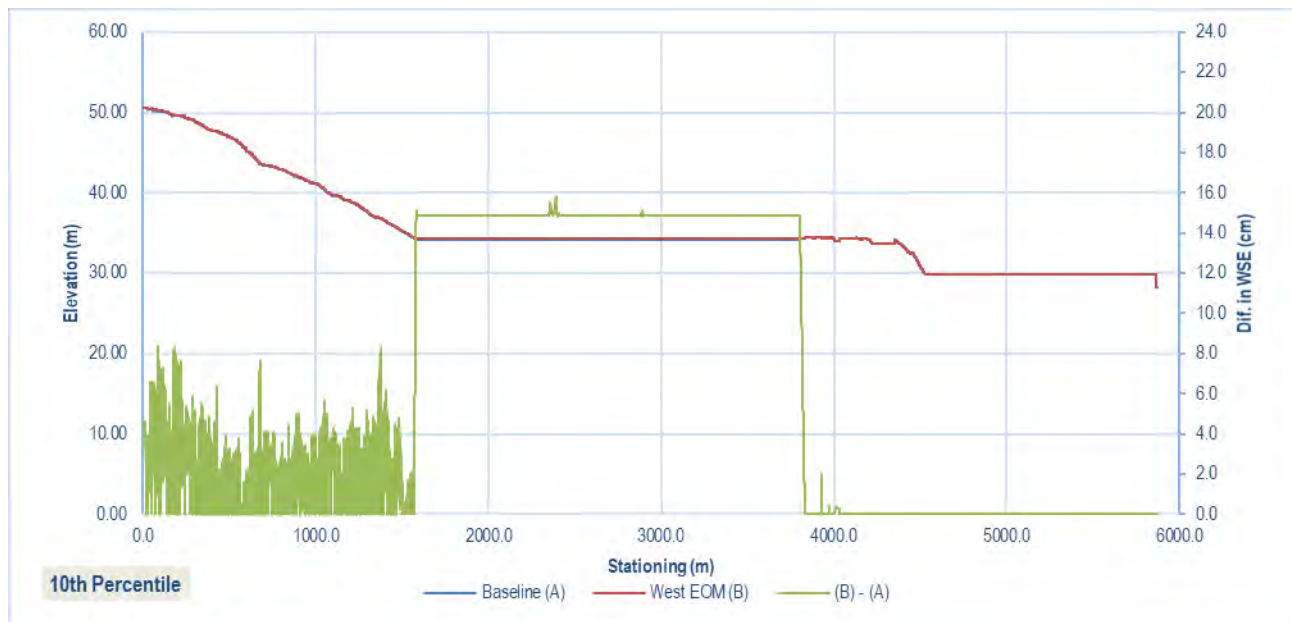


Figure 3 10th percentile flow conditions - Longitudinal profile of water surface elevations and difference and water levels.



Figure 4 Average flow conditions - Longitudinal profile of water surface elevations and difference and water levels.



Figure 5 Channel stationing. Aerial imagery and digital elevation model on the background.

5. References

GHD. (2022). *Water Balance Analysis Summary Report. Goldboro Gold Project. Anaconda Mining. April 22, 2022.*

USACE. (2021). *HEC-RAS. 2021. River Analysis System HEC-RAS 2D User's Manual. Version 6.2. U.S. Army Corps of Engineers.*

6. Disclaimer

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Regards



Rodrigo Freire De Macedo
Senior Hydraulic Modeller



Andrew Betts, P.Eng. (NS, ON)
Senior Water Resources Engineer

Appendix F.7

Predictive Water Quality Assessment



Predictive Water Quality Assessment

Goldboro Gold Project

Anaconda Mining

May 25, 2022

→ **The Power of Commitment**

GHD

455 Phillip Street, Unit 100A

Waterloo, Ontario N2L 3X2, Canada

T +1 519 884 0510 | **F** +1 519 884 0525 | **E** info-northamerica@ghd.com | **ghd.com**

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Appendix C	Predictive Water Quality Assessment Results

List of Acronyms

ACWG	Atlantic Canada Wastewater Guidelines
CCME	Canadian Council of Ministers of the Environment
COC	Constituents of Concern
EIS	Environmental Impact Statement
IDZ	Initial Dilution Zone
MDMER	Metal and Diamond Mining Environmental Regulation
MWMP	Mine Water Management Plan
NAG	Non-Acid Generating
NFR	Near Field Region
NSECC	Nova Scotia Environment and Climate Change
PAG	Potentially Acid Generating
PWQ	Predictive Water Quality
PWQA	Predictive Water Quality Assessment
PWQM	Predictive Water Quality Model
SSWQG	Site-Specific Water Quality Guidelines
TMF	Tailings Management Facility
WQA	Water Quality Assessment

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1. Introduction

1.1 Purpose of this Report

Anaconda Mining Inc. (Anaconda) has retained GHD Limited (GHD) to provide technical and permitting services in support of a Provincial Class 1 Environmental Assessment Registration Document (EARD) submission to Nova Scotia Environment and Climate Change (NSECC) for the Goldboro Gold Project (Project), located in Guysborough County, Nova Scotia (NS). GHD's scope of work includes the development of a mine water management plan (MWMP) for the EARD. As part of the MWMP, GHD has completed a Predictive Water Quality Assessment (PWQA) for five (5) stages of the Project. These stages are as follows:

1. Mid-Extraction conditions – 8 years following start of mining activities.
2. Full Extraction conditions – conclusion of mining activities, 12 years following start of mining activities.
3. East Pit Filled conditions – once the East Pit has been filled with water and begins to discharge to the natural environment. The East Pit will be filled 19 years following start of mining activities based on average climate conditions. Year 21 was chosen as the representative year depicting the water quality of each discharge point and the receiving water body under East Pit Filled conditions.
4. West Pit Filled conditions – once the West Pit has been filled with water and begins to discharge to the natural environment. The West Pit will be filled 35 years following start of mining activities based on average climate conditions. Year 37 was chosen as the representative year depicting the water quality of each discharge point and the receiving water body under West Pit Filled conditions.
5. Perpetuity conditions – when no further changes to flow or water quality can be expected. 50 years following the start of mining activities.

For each stage of the Project, the potential effects of mine contact water to the receiving environment (i.e. Gold Brook Lake and Gold Brook) was assessed under base case (median) and upper case (90th percentile) concentration scenarios (refer to **Section 2.1** for further details on the assessment scenarios). This report presents the methodology and results for the PWQA, which are used to:

1. Determine if mine effluent has the potential to impact the receiving environment, and;
2. Determine if mine effluent treatment will be required during any of the 5 stages of the Project (listed above).

The potential design of treatment for the mine effluent is based on the regulatory effluent quality criteria and on the water quality source terms modelling. Regulatory limits are presented in **Section 2.2** of the present report.

1.2 Project Background

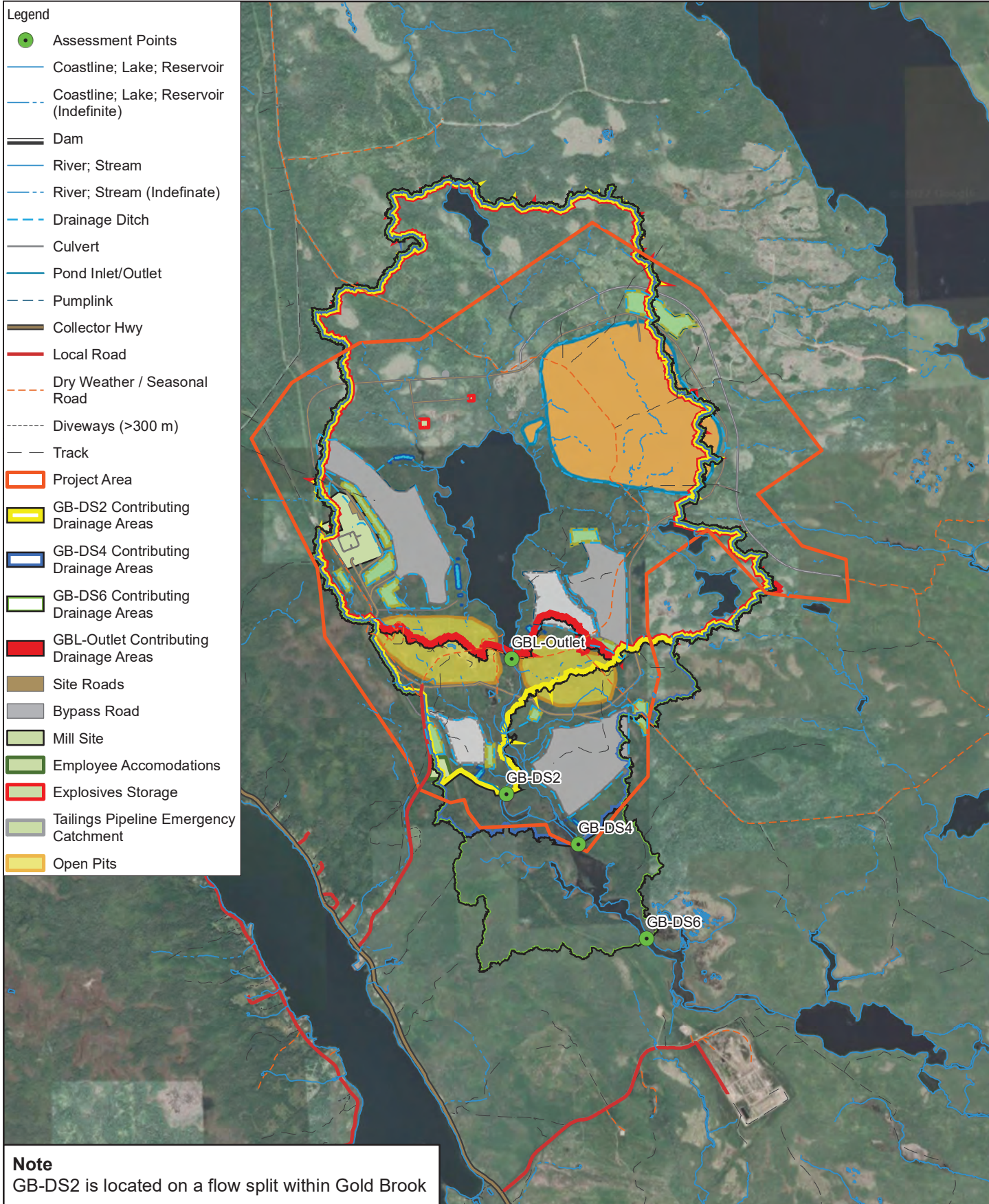
The Goldboro Gold Project (Project) will include two open pits with a proposed milling rate of 4,000 tonnes per day for a duration of 11 years. For the purposes of this assessment, a Project Area (PA) was defined as the footprint of Project related infrastructure plus a buffer of 100 – 200 m. Project infrastructure will include two open pits, associated waste rock storage areas (WRSA, mill and processing area and tailings management facility (TMF). All ore mined from the Project will be processed on-site. Construction is anticipated to take upwards of 2 years. The Project will be in operations for 11 years followed by 3 years of active closure/reclamation. Monitoring will occur throughout all phases of the Project.

The development of the Project requires schematic design of the process water, potable water and wastewater infrastructure and treatment requirements. As part of this initial design effort, GHD Limited (GHD) was retained by Anaconda to develop a Mine Water Management Plan (MWMP) for the Project.

The objective of the MWMP is to mitigate the operational risks and environmental impacts of the Project on the surrounding environment including the Gold Brook Lake and Gold Brook system. As part of the MWMP, GHD

completed a PWQA to predict the concentration of Constituents of Concern (COC) in the mine discharge water at the Project discharge points.

The total contributing drainage area to the far field mixing zone assessment point in Gold Brook is approximately 1,319 ha, which includes the open pits and Gold Brook Lake. The contributing drainage areas and Project footprint is shown on Figure 1.1.



Paper Size ANSI A
0 200 400 600 800
Metres

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 20N



ANACONDA MINING INC.
GOLDBORO GOLD PROJECT
PREDICTIVE WATER QUALITY ASSESSMENT

CATCHMENT AREAS
BASELINE CONDITIONS

Project No. 11222385
Revision No. -
Date May 24, 2022

FIGURE 1-1

Data source: Google Earth Imagery, Date: 09/14/2015.

2. Constituents of Concern and Regulatory Analysis

The impact of the Project on the surrounding environment can be determined by comparing Predicted Water Quality (PWQ) results with applicable regulatory criteria for a select set of constituents. This section describes the methodology behind selecting which COC are to be assessed when determining the impact of the Project on the surrounding environment as well as the associated regulatory limits for each COC.

2.1 Source Term Development

To predict the concentration of each constituent, the geochemistry of each material including Potentially Acid Generating (PAG) waste rock, Non-Acid Generating (NAG) waste rock, topsoil, and till were assessed individually by Lorax Environmental (Lorax) and presented in the Geochemistry Report (Lorax, 2022b). This assessment included both the base case (BC) (median) and upper case (UC) (90th percentile) concentration scenarios for 37 different constituents for short-term and long-term scenarios. The base case scenario is considered in this study as representing the most likely concentration scenario (median) while the upper-case scenario is considered as representing the likely worst-case (90th percentile) concentration scenario. Short-term source terms were applied to all materials or infrastructure at the start of operations. The source terms for any given material or piece of infrastructure were transitioned from short-term to long-term conditions when the material or infrastructure was in place, with no further changes or re-work, for 3 years. Long-term source terms were applied in perpetuity. Geochemical source term data used for this analysis is presented in the Geochemistry Report (Lorax, 2022b).

To determine which parameters have the potential to exceed regulatory limits due to mining-related activity, the geochemical source term data was compared to relevant water quality effluent regulations for the Project, as outlined in Section 2.2.

2.2 Regulatory Limits

2.2.1 Regulatory Overview and Site-Specific Water Quality Guidelines

There are several federal and provincial guidelines that outline the quality of water criteria for discharge from the Project into a natural water body. Specifically, this COC assessment focuses on potential COCs identified in the:

1. Metal and Diamond Mining Environmental Regulation (MDMER) Objectives (MDMER, 2022).
2. Canadian Council of Ministers of the Environment (CCME) guidelines for the Protection of Aquatic Life, Freshwater (<https://ccme.ca/en/summary-table>, last accessed 8 April 2022); and
3. Tier 1 Nova Scotia Environment (NSE) Environmental Quality Standards (EQS) for surface water (Nova Scotia Environment, 2021).

The MDMER objectives regulate the concentration of certain constituents within effluent discharge (last point of control) while the CCME and Tier 1 EQS guidelines are applicable to the concentration of constituents within the receiving water bodies. The more conservative guideline between CCME and Tier 1 EQS was taken as the applicable regulatory limit.

In addition to the MDMER, CCME and Tier 1 EQS regulatory guidelines, Site-Specific Water Quality Guidelines (SSWQG) have been established for certain constituents. SSWQG have been developed for constituents where the background concentrations exceed CCME and Tier 1 EQS Guidelines or a risk hazard assessment has been performed on the receiving water body. When background concentrations were shown to exceed the CCME or Tier 1 EQS regulatory limit, the 95th Percentile background concentration was taken to be the SSWQG. In addition, SSWQG were developed for Cadmium, Cobalt, Lead, Zinc and Nitrite as shown in the Site Specific Water Quality Compliance

memo included in **Appendix B**. If a SSWQG was established for a given constituent, this was assumed to take precedence over the CCME and Tier 1 EQS regulatory limits.

Background concentrations for determining SSWQGs were determined based on background water quality sampling results which occurred at 19 individual sampling locations between August 2018 and December 2021. Sampling locations are shown on Figure 2.1.

2.2.2 Background Concentrations

The Project will have 7 different discharge points over the duration of mining activities with discharges into both Gold Brook Lake and Gold Brook. Upon review of background water quality for Gold Brook Lake and Gold Brook there is a difference in background concentrations of certain constituents from Gold Brook Lake to Gold Brook, likely due to the presence of historic tailings in Gold Brook. As such, background water quality values were calculated for Gold Brook Lake and Gold Brook separately.

Two sampling locations are located at the outlet of Gold Brook Lake: Monitoring Station #4 and SW-12-21. To quantify the background concentrations of Gold Brook Lake, the sample results at Monitoring Station #4 and SW-12-21 were analyzed. 22 sampling events occurred at Monitoring Station #4 between August 2018 and November 2021 and 9 sampling events occurred at SW-12-21 between April 2021 and December 2021 for a total of 31 sampling events. These sampling events were collected monthly over the span of several years and as such provide an accurate representation of the background water quality in Gold Brook Lake on a yearly basis. Surface water quality sampling at SW-12-21 is ongoing and background constituent concentrations will be updated as additional data is obtained.

Two sampling locations are located within Gold Brook: Monitoring Station #7 and SW-11-21. To quantify the background concentrations of Gold Brook Lake, the sample results at Monitoring Station #7 and SW-11-21 were analyzed. 64 sampling events occurred at Monitoring Station #7 between August 2018 and November 2021 and 9 sampling events occurred at SW-11-21 between April 2021 and December 2021 for a total of 73 sampling events. These sampling events were collected monthly over the span of several years and as such provide an accurate representation of the background water quality in Gold Brook on a yearly basis. Surface water quality sampling at SW-11-21 is ongoing and background constituent concentrations will be updated as additional data is obtained.

2.2.3 Regulatory Compliance

The geochemical source term data has been compared to the MDMER, CCME, Tier 1 EQS and SSWQG to determine which constituents have the potential to exceed applicable regulatory limits. The list of potential COCs has been refined to 24 parameters. A summary of the regulatory limits for each COC is shown in **Table 2.1**. MDMER regulatory objectives apply to the constituent concentrations in the effluent while the Applicable Regulatory Criteria (combination of CCME, Tier 1 EQS and SSWQG) applies to the constituent concentration in the receiving water body upon full mixing with the receiving water body. The distance to full mixing for each discharge point is calculated and discussed in further detail in **Section 3.4.1**. Geochemical source term data and predicted exceedances of regulatory limits for all constituents are shown in **Appendix A**.

As noted in **Table 2.1** several constituent regulatory limits are dependant upon other geochemical properties of the water such as hardness, pH and/or DOC content. These constituents include Aluminum, Cadmium, Copper, Lead, Manganese, Nickel, Zinc and Ammonia. Conservative estimates have been made for the CCME regulatory limits for each of these constituents however, the limits for these 8 constituents may be refined with the collection of further surface water quality samples.

The background concentrations of the COCs identified in **Table 2.1** are shown in **Table 2.2** for both Gold Brook Lake and Gold Brook. Concentrations presented for Gold Brook Lake are based on 31 unique sampling events from August 2018 to December 2021 and concentrations presented for Gold Brook are based on 73 unique sampling events from August 2018 to December 2021, sampled monthly and covering all seasons.

These background concentrations have been used in combination with the background flow volume within Gold Brook Lake and Gold Brook as well as the predicted mine effluent concentrations and volumes to perform mixing

calculations. These mixing calculations were used to determine the resulting constituent concentrations within Gold Brook Lake and Gold Brook downstream of the Project. Un-ionized Ammonia was calculated as a percent of Total Ammonia. The percent of Total Ammonia which is un-ionized Ammonia is dependant on the pH and temperature of the water as per Emerson et al, 1975. Cyanide is a constituent of concern, but background concentrations are not listed as it is typically a by-product of the refining process of the ore and is not present in background conditions naturally.

Table 2.1 MDMER, CCME, Tier 1 EQS and Site-Specific Water Quality Regulatory Limits

Constituent	MDMER (µg/L)	CCME (µg/L)	Tier 1 EQS (µg/L)	SSWQG Gold Brook Lake (µg/L)	SSWQG Gold Brook (µg/L)	Applicable Downstream Regulatory Criteria (µg/L)
Aluminum	--	5.00 ^a	5.00	504	430	504 ⁱ or 430 ^j
Antimony	--	20	9.00	--	--	9.00
Arsenic	100	5.00	5.00	61.8	677	61.8 ⁱ or 677 ^j
Barium	--	--	1000	--	--	1000
Beryllium	--	--	0.15	0.675	0.500	0.675 ⁱ or 0.500 ^j
Cadmium	--	0.04 ^b	0.09	0.09 ^k	0.09 ^k	0.09
Chromium	--	--	1.00	--	--	1.00
Cobalt	--	--	1.00	2.00 ^k	2.00 ^k	2.00
Copper	100	2.00 ^c	2.00	--	--	2.00
Iron	--	300	300	698	1,170	698 ⁱ or 1,170 ^j
Lead	80	1.00 ^d	1.00	1.42 ^k	1.00 ^k	1.42 or 1
Manganese	--	190 ^e	430	--	--	190
Mercury	--	0.026	0.026	--	--	0.026
Nickel	250	25.0 ^f	25.0	--	--	25.0
Selenium	--	1.00	1.00	--	--	1.00
Silver	--	0.25	0.25	--	--	0.25
Thallium	--	0.80	0.80	--	--	0.80
Uranium	--	15.0	15.0	--	--	15.0
Vanadium	--	--	120	--	--	120
Zinc	400	7.00 ^g	7.00	92.0 ^k	18.0 ^k	92.0 or 18.0
Ammonia (µg N/L)	--	69.7 ^h	--	--	--	69.7
Un-ionized Ammonia (µg N/L)	--	19.0	--	--	--	19.0
Nitrate (µg N/L)	--	13,000	--	--	--	13.0
Nitrite (µg N/L)	--	60.0	--	197 ^k	197 ^k	197 ^k
Cyanide	500	5.00	--	--		5.0
Notes:						
^a The CCME Regulatory limit for Aluminum is dependant upon pH of the receiving water body. [Al] = 5 µg/L if pH < 6.5. Receiving water body pH = 4.9 (Gold Brook Lake) and 5.9 (Gold Brook)						

^b The CCME Regulatory limit for Cadmium is dependant upon the hardness of the receiving water body. [Cd] = 0.04 µg/L for hardness <17 mg/L CaCO₃. Receiving water body hardness = 3.45 mg/L CaCO₃ (Gold Brook Lake) and 6.08 mg/L CaCO₃ (Gold Brook)

^c The CCME Regulatory limit for Copper is dependant upon the hardness of the receiving water body. [Cu] = 2 µg/L for hardness <82 mg/L CaCO₃. Receiving water body hardness = 3.45 mg/L CaCO₃ (Gold Brook Lake) and 6.08 mg/L CaCO₃ (Gold Brook)

^d The CCME Regulatory limit for Lead is dependant upon the hardness of the receiving water body. [Pb] = 1 µg/L for hardness <60 mg/L CaCO₃. Receiving water body hardness = 3.45 mg/L CaCO₃ (Gold Brook Lake) and 6.08 mg/L CaCO₃ (Gold Brook)

^e The CCME Regulatory limit for Manganese is dependant upon the hardness and pH of the receiving water body. [Mn] = 190 µg/L for hardness = 3.454 mg/L CaCO₃ and pH = 4.9 (as per Gold Brook Lake water quality)

^f The CCME Regulatory limit for Nickel is dependant upon the hardness of the receiving water body. [Ni] = 25 µg/L for hardness <60 mg/L CaCO₃. Receiving water body hardness = 3.45 mg/L CaCO₃ (Gold Brook Lake) and 6.08 mg/L CaCO₃ (Gold Brook)

^g The CCME Regulatory limit for Zinc is dependant upon the hardness, pH and Dissolved Organic Carbon of the receiving watercourse. The equation used to calculate the CCME Regulatory limit for Zinc is only valid between hardness 23.4 and 399 mg/L CaCO₃, pH 6.5 and 8.13 and DOC 0.3 to 22.9 mg/L. A conservative estimated regulatory limit of 7 µg/L (assuming 50 mg/L CaCO₃ hardness, pH of 7.5 and 0.5 mg/L DOC) has been applied as the receiving water body hardness and pH both fall outside the applicable range of application of the equation. This assumption is conservative because when hardness and pH decrease the allowable regulatory limit for Zinc increases. The assumed values of 50 mg/L CaCO₃ and pH of 7.5 both exceed average hardness and pH values from the receiving water body

^h The CCME Regulatory limit for Ammonia is dependant upon the pH and temperature of the water. A conservative estimate of 69.7 µg/L NH₃ has been applied based on a pH of 6.0 and water surface temperature of 15°C. This assumption is conservative because as the water temperature decreases the allowable regulatory limit for Ammonia increases. The assumed value of 15°C exceeds the recorded water temperature within Gold Brook for the majority of the year

ⁱ based on 95th percentile background concentrations of samples taken from 2018 to 2021 within Gold Brook Lake

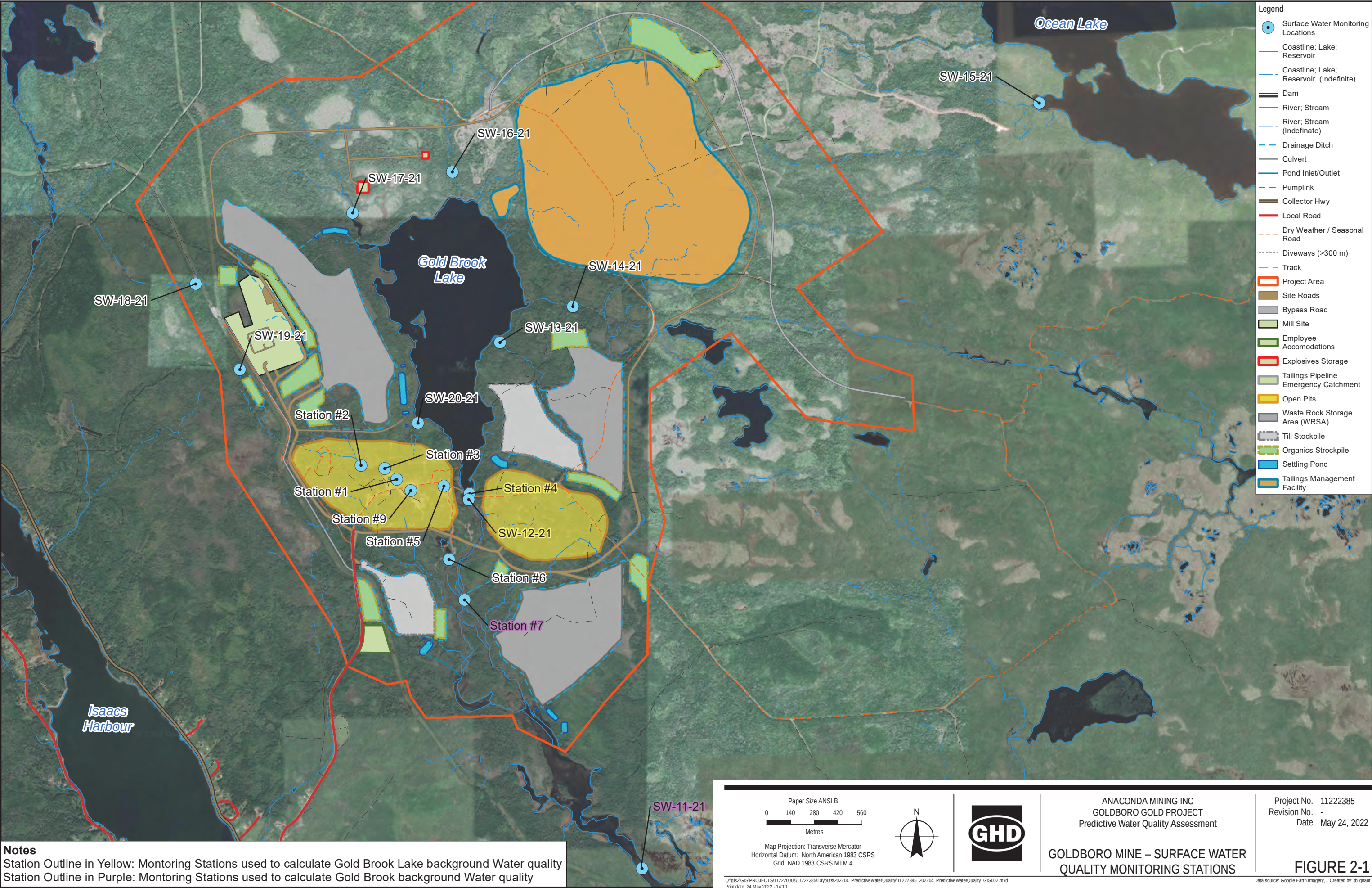
^j based on 95th percentile background concentrations of samples taken from 2018 to 2021 within Gold Brook, downstream of the proposed Site discharge point

^k based on Site-Specific Water Quality Compliance established in Appendix B

Table 2.2 Background Concentrations in Gold Brook Lake and Gold Brook

Constituent	Gold Brook Lake		Gold Brook	
	Average Concentration (µg/L)	95 th Percentile Concentration (µg/L)	Average Concentration (µg/L)	95 th Percentile Concentration (µg/L)
Aluminum	329	504	257	430
Antimony	0.529	0.675	0.507	0.500
Arsenic	19.3	61.8	184	677
Barium	2.54	3.37	2.47	3.60
Beryllium	0.424	0.675	0.476	0.500
Cadmium	0.015	0.037	0.013	0.025
Chromium	0.515	0.500	0.700	1.30
Cobalt	0.218	0.305	0.208	0.200
Copper	0.574	1.00	0.788	1.74
Iron	493	698	620	1,170
Lead	0.514	0.970	0.449	0.762
Manganese	18.9	25.5	33.5	80.3
Mercury	0.006	10.3	0.033	136
Nickel	1.00	1.00	1.08	1.00

Constituent	Gold Brook Lake		Gold Brook	
	Average Concentration (µg/L)	95 th Percentile Concentration (µg/L)	Average Concentration (µg/L)	95 th Percentile Concentration (µg/L)
Selenium	0.324	0.500	0.401	0.500
Silver	0.050	0.050	0.050	0.050
Thallium	0.050	0.050	0.050	0.050
Uranium	0.053	0.067	0.051	0.050
Vanadium	1.00	1.00	1.01	1.00
Zinc	5.94	11.8	4.44	9.76
Ammonia (µg N/L)	30.9	65.5	59.4	178
Un-ionized Ammonia (µg N/L)	0.120	0.255	0.232	0.694
Nitrate (µg N/L)	6.35	15.9	5.92	10.6
Nitrite (µg N/L)	28.9	62.35	71.6	234
Cyanide	NA	NA	NA	NA



3. Predictive Water Quality Assessment

The Predictive Water Quality Assessment is a mass balance model with predicted concentrations calculated on a monthly basis for the average year climatic conditions. Performing the Water Quality Assessment on a monthly basis allows for the prediction of the seasonality characteristics of water quantities and quality in Gold Brook and Gold Brook Lake. This allows for:

1. the assessment of the effluent regime during wet and dry months to determine the month with the highest effect on the water quality in the receiving environment; and
2. supporting the conceptual design of treatment for the Mine effluent.

The Predictive Water Quality Model (PWQM) was developed in GoldSim as a mass balance model. GoldSim is a highly graphical program used for carrying out dynamic, computationally intensive, but well-defined network models such as water balances and mass balances. GoldSim permits inputs to be entered as probability distributions, performs Monte Carlo simulations, tracks outputs from those simulations, and provides a graphical interface to facilitate the review and identification of interactions between system components. The mass balance model required a detailed understanding of how much effluent water will be generated in each specific portions of the Project (e.g., pit wall runoff, waste rock storage area seepage), where this effluent water will be directed and what level of loadings will be generated by these elements of Project infrastructure. The following sections will discuss the components of the PWQM.

3.1 Water Management

During the construction phase of the Project, surface water runoff and groundwater inflows will be directed to specified receiving storage areas and locations prior to discharge into the receiving environment. The following section discusses the direction of water throughout the development and reclamation of the Project.

The Project is located within the catchment of Gold Brook, which drains to Seal Harbour Lake and ultimately the Atlantic Ocean at Seal Harbour. The total catchment area at the point where Gold Brook drains into Seal Harbour Lake is approximately 1,550 hectares (ha). The catchment is comprised of numerous lakes, wetlands, watercourses, and forested lands. The largest water body in the catchment is Gold Brook Lake, which has a surface area of approximately 80 ha and discharges to Gold Brook.

Over the lifespan of the mine, components of the the proposed mine water management system will discharge to a total of six (6) settling ponds and two (2) open pits spaced around the Site, before discharging mine effluent water to the receiving waterbody. Mine contact water will be treated to the regulated effluent criteria as discussed further in **Section 3.4**. The water transfers occurring during each of the 5 phases of mine development identified in **Section 1.1** (and discharge points of each treatment facility/open pit) are discussed in **Table 3.1** through **Table 3.4**. There are no changes to site-wide water transfers from the West Pit Filled scenario to the Perpetuity scenario.

Table 3.1 Site Water Transfer Summary - Mid-Extraction Scenario

Settling Ponds and Open Pits	Sources of Inflow	Discharge Point
East Settling Pond	Surface runoff from the northeast (NE) WRSA	Central Pond
	Seepage from the NE WRSA	
	Surface runoff from the NE till stockpile	
	Surface runoff from various organics stockpiles	
	Dewatering pumped from the East Pit	
North Settling Pond	Surface runoff from a portion of the northwest (NW) WRSA	Gold Brook Lake
	Seepage from a portion of the NW WRSA	

Settling Ponds and Open Pits	Sources of Inflow	Discharge Point
Central Settling Pond	Surface runoff from a portion of the NW WRSA	Gold Brook Lake
	Seepage from a portion of the NW WRSA	
	Surface runoff from various organics stockpiles	
	Surface runoff from the administrative areas	
	Dewatering pumped from the West Pit	
	Effluent pumped from the east settling pond	
Southwest Settling Pond	Surface runoff from the southwest (SW) till stockpile	Gold Brook
	Surface runoff from various organics stockpiles	
	Surface runoff from the employee accommodations area	
Southeast Settling Pond	Surface runoff from the southeast (SE) WRSA	Gold Brook
	Seepage from the SE WRSA	
Tailings Management Facility	Discharge from the TMF area	Gold Brook Lake
East Pit	Pit wall runoff	East Pond
	Groundwater inflow	
West Pit	Pit wall runoff	Central Pond
	Groundwater inflow	

Table 3.2 Site Water Transfer Summary - Full-Extraction Scenario

Settling Ponds and Open Pits	Sources of Inflow	Discharge Point
East Settling Pond	Surface runoff from the NE WRSA	East Pit
	Seepage from the NE WRSA	
North Settling Pond	Surface runoff from a portion of the NW WRSA	Gold Brook Lake
	Seepage from the NW WRSA	
Central Settling Pond	Surface runoff from a portion of the NW WRSA	Gold Brook Lake
	Seepage from a portion of the NW WRSA	
	Surface runoff from the administrative areas	
	Dewatering pumped from the West Pit	
Southwest Settling Pond	Surface runoff from the employee accommodations area	Gold Brook
Southeast Settling Pond	Surface runoff from the SE WRSA	Gold Brook
	Seepage from the SE WRSA	
Tailings Management Facility	Discharge from the TMF area	Gold Brook Lake
East Pit	Pit wall runoff	No discharge (filling)
	Groundwater inflow	
	Effluent pumped from the east settling pond	
West Pit	Pit wall runoff	Central Pond
	Groundwater inflow	

Table 3.3 *Site Water Transfer Summary - East Pit Filled Scenario*

Settling Ponds and Open Pits	Sources of Inflow	Discharge Point
East Settling Pond	Surface runoff from the NE WRSA	East Pit
	Seepage from the NE WRSA	
North Settling Pond	Surface runoff from a portion of the NW WRSA	Gold Brook Lake
	Seepage from a portion of the NW WRSA	
Central Settling Pond	Surface runoff from a portion of the NW WRSA	West Pit
	Seepage from a portion of the NW WRSA	
	Surface runoff from the administrative areas	
Southwest Settling Pond	N/A	Decommissioned
Southeast Settling Pond	Surface runoff from the SE WRSA	Gold Brook
	Seepage from the SE WRSA	
Tailings Management Facility	Discharge from the TMF area	Gold Brook Lake
East Pit	Pit wall runoff	Gold Brook
	Groundwater inflow	
	Effluent from the east settling pond	
West Pit	Pit wall runoff	No discharge (filling)
	Groundwater inflow	
	Effluent from the central settling pond	

Table 3.4 *Site Water Transfer Summary - West Pit Filled and Perpetuity Scenarios*

Settling Ponds and Open Pits	Sources of Inflow	Discharge Point
East Settling Pond	Surface runoff from the NE WRSA	East Pit
	Seepage from NE WRSA	
North Settling Pond	Surface runoff from a portion of the NW WRSA	Gold Brook Lake
	Seepage from a portion of the NW WRSA	
Central Settling Pond	Surface runoff from a portion of the NW WRSA	West Pit
	Seepage from a portion of the NW WRSA	
Southwest Settling Pond	N/A	Decommissioned
Southeast Settling Pond	Surface runoff from the SE WRSA	Gold Brook
	Seepage from the SE WRSA	
Tailings Management Facility	Discharge from the TMF area	Gold Brook Lake
East Pit	Direct precipitation	Gold Brook Lake
	Groundwater inflow	
	Effluent from the east settling pond	
West Pit	Pit wall runoff	Gold Brook Lake
	Groundwater inflow	
	Effluent from the central settling pond	

For further details on the water management proposed for the Project refer to the Water Balance Analysis Summary Report (GHD, 2022a).

3.2 Predictive Source Term Model

To determine the concentrations of constituents in the effluent, the geochemistry of each stockpile or storage area (till, topsoil, waste rock) and the pit wall rock were assessed individually by Lorax Environmental in the Geochemistry Report (Lorax, 2022b). This assessment included both the base case and the upper-case scenarios of COC for both short-term and long-term conditions for all waste rock storage area and the pit walls. Only source terms for the short-term, upper-case scenario were provided for the Till and Organics stockpiles. Only short-term source terms were used for the Till and Organics stockpiles because these stockpiles will be re-used on Site for capping the waste rock storage areas. The base case scenario represents the most likely scenario (median) while the upper-case scenario represents the worst-case (90th percentile) concentration scenario.

Due to the nature of mining activities, certain portions of the Project will complete their life cycle prior to other portions. In addition, reclamation activities are anticipated to begin immediately following the completion of work on a certain piece of infrastructure (e.g waste rock storage areas will be capped and seeded immediately following the completion of the waste rock storage area). By immediately starting reclamation, the duration of time infrastructure will be exposed (without a cover) has been reduced. Based on predicted conditions, it was assumed that once a given piece of infrastructure (e.g., open pit, waste rock storage area) is untouched for 3 years, the source terms applied to this piece of infrastructure would be transitioned to the long-term source terms as the material in question moves into an acidic phase (Lorax Environmental, 2022a).

Nitrogen source terms (source terms for Ammonia, Nitrate and Nitrite) were provided for both base-case and upper-case conditions on a short-term basis and use a decay rate to calculate the long-term source terms. The Nitrogen source terms under long-term conditions were provided as a decay rate because Ammonia, Nitrate and Nitrite source terms will decay over time due to natural weathering of the material. The Nitrogen source term decay rates are indicated in **Table 3.5**.

Table 3.5 Nitrogen Source Terms Decay Rates

Constituent	Waste Rock Storage Area	Decay Equation	Pit Sump	Decay Equation	Pit Lake	Decay Equation
Ammonia	24%	90% Nitrate, 10% Nitrite	80%	90% Nitrate, 10% Nitrite	30%	80% Nitrate, 20% Nitrite
Nitrite		100% Nitrate		100% Nitrate		100 % Nitrate
Nitrate		--		--		--

The concentrations of the COC being discharged from the Tailings Management Facility (TMF) were provided in the Tailings Management Facility Report (KP, 2022). Source terms for the TMF discharge were provided for years 1 through 18 of the Mine operations. The source terms were assumed to remain constant after year 18 as constituent concentrations had either reached stability or were at concentrations below regulatory limits.

3.3 Water Balance Integration

A combined hydrological and water balance model was developed in GoldSim to predict the impacts of the development of the Project based on the hydrological regime of the nearby watercourses and lake. GoldSim is a highly graphical program used for carrying out dynamic, computationally intensive, but well-defined network models such as water balances and mass balances. GoldSim permits inputs to be entered as probability distributions, performs Monte Carlo simulations, tracks outputs from those simulations, and provides a graphical interface to facilitate the review and identification of interactions between system components.

This water balance model was run on a monthly basis for a span of 50-years, starting with baseline conditions and continuing until post-closure and post-reclamation conditions. This water balance assessment has been used to determine the predicted impacts of the Project on the local water bodies such as Gold Brook and Gold Brook Lake, as well as several other smaller stream networks around the Project Area. In addition, the water balance model produced outputs such as flow rates from different areas of Project infrastructure and flow rates to each discharge point. These values were reported on a monthly basis and used as the basis of the predictive water quality model. The Project infrastructure layout was varied on a yearly basis, capturing changes to the storage area or stockpile sizes, pit dimensions, direction of water and reclamation activities on a yearly time scale. More details on the Water Balance Model can be found in the Water Balance Assessment report (GHD, 2022a).

The predictive water quality model was developed in the same GoldSIM simulation as the water balance model to ensure the predicted flows from the water balance model are input into the predictive water quality model directly.

3.3.1 Storage Area and Stockpile Water Balance & Loading Rates

Runoff from, infiltration into and evaporation from each storage area or stockpile material were determined as a percentage of total rainfall. Details on the runoff, infiltration and evaporation coefficients can be found in the Water Balance Assessment report (GHD, 2022a).

For each storage area or stockpile, direct runoff was assumed to be clean with no constituents of concern while seepage was assumed to contain the constituents of concern identified in the Lorax Environmental Geochemistry Report (Lorax, 2022b). All infiltration into the till and organics stockpiles is expected to be absorbed based on the assumed field capacities of these materials.

The PWQA incorporated groundwater discharge into Gold Brook Lake and Gold Brook, including potential additional loading from mine-related activities. Loading rates from COCs were taken from GHD's groundwater model for the Goldboro Site (GHD, 2022b) and used as direct inputs in the GoldSim PWQ model.

3.3.2 Pit Water Balance & Loading Rates

During operations of the Mine, dewatering of the pits will be required as the groundwater table elevation is above the projected elevation of the pit floor. In addition, runoff from direct precipitation and snow melt will also contribute to the water within the open pits. The water collected within the pits will be pumped out of the respective pit (see the Water Balance Assessment report (GHD, 2022a) for details on water management). Once operations of each pit have ceased, dewatering activities will cease, resulting in a rising water level within the pits themselves. As outlined in the Water Balance Assessment Report (GHD, 2022a), the filling of the East Pit will take approximately 11 years following the end of mining of the East Pit and the filling of the West Pit will take approximately 24 years following the end of mining of the West Pit. Once the water surface in each of the pits has reached an elevation of 50.75 meters (m) above sea level (masl), additional water will overflow the pit walls through an engineered outlet structure directly into Gold Brook Lake.

The exposed pit wall area is expected to produce runoff equal to 85% of total rainfall with the remaining 15% evaporating off of the surface of the pit walls (GHD, 2022a).

The additional inflow to the pit from groundwater seepage was incorporated into the water balance model on a yearly basis as per GHD's groundwater model (GHD, 2022b).

For the model, while the pits are in operations, precipitation that falls into the pit is assumed to contact the freshly exposed pit walls, causing the release of weathering product, resulting in constituents of concern loading as determined in the Predictive Source Term model. Groundwater inflow concentrations were calculated by GHD's groundwater model (GHD, 2022b).

Once operations on the pits were completed and the water level was allowed to rise within the pits, any rainfall which fell directly onto the pit lake which has formed in the pit was assumed to contain no additional source term loading as this rainwater will not have come in contact with any mine infrastructure or background material before entering the pit lake.

3.4 Effluent Discharge Points

There are seven (7) total discharge points across all phases of mine operation, reclamation, and closure. The discharge points and years of operation are indicated **Table 3.6**.

Table 3.6 Effluent Discharge Locations and Years of Operation

Discharge Location	Receiving Waterbody	Years of Operation
North Settling Pond	Gold Brook Lake	In Perpetuity
Tailings Management Facility	Gold Brook Lake	In Perpetuity
Central Settling Pond	Gold Brook Lake	Years 1-11
West Pit	Gold Brook Lake	> Year 36
East Pit	Gold Brook Lake	> Year 20
Southwest Settling Pond	Gold Brook	< Year 7
Southeast Settling Pond	Gold Brook	In Perpetuity

The North Settling Pond, TMF, and Southeast Settling Pond discharge points for mine contact water will start discharging effluent water at the start of mining operations and will continue in perpetuity. The Central Pond will receive the pit dewatering water (as well as runoff and seepage from the northwest waste rock storage area) and will only be active during operation of the mine (from years 1 through 11). The Southwest Settling Pond will receive runoff from the till pile. Once the southwest till pile has been decommissioned (Year 7) the Southwest Settling Pond will be decommissioned. The East and West pits will discharge water to Gold Brook Lake once they have finished filling with water. For the East and West pits these are expected to occur in years 19 and 35, respectively.

3.4.1 Initial Dilution Zone Model and Regulatory Overview

A near-field mixing zone model was created to determine the extent of the three-dimensional dilution zone around the points of effluent discharge where mixing of the effluent (treated mine contact water) and the receiving waters (Gold Brook Lake and Brook system) occurs. This is commonly referred to as Near Field Region (NFR) or Initial Dilution Zone (IDZ). The water quality objectives for the receiving water body as set out in **Section 2** do not apply within the IDZ, which is the initial portion of a larger effluent dilution zone. The Atlantic Canada Wastewater Guidelines (ACWG) (Environment Canada, 2006) sets out limits on the size of the mixing zone which have been adopted for this study. The guidelines state that a mixing zone be constrained by the following targets:

- Not to exceed 25% of the cross-sectional area or volume of flow in streams/ivers.
- Not to exceed 1/3 of the river width at any transect in receiving stream/river.
- Not to exceed beyond a 100 m radius from the effluent outfall in a lake.

The mixing zone model was created for the NFR using the modelling software CORMIX, which solves various equations of turbulence structure and is commonly used for the analysis, prediction, and design of an effluent discharge into a receiving water body. A detailed description of the modelling methodology and results can be found in the Initial Dilution Zone Study (GHD, 2022d).

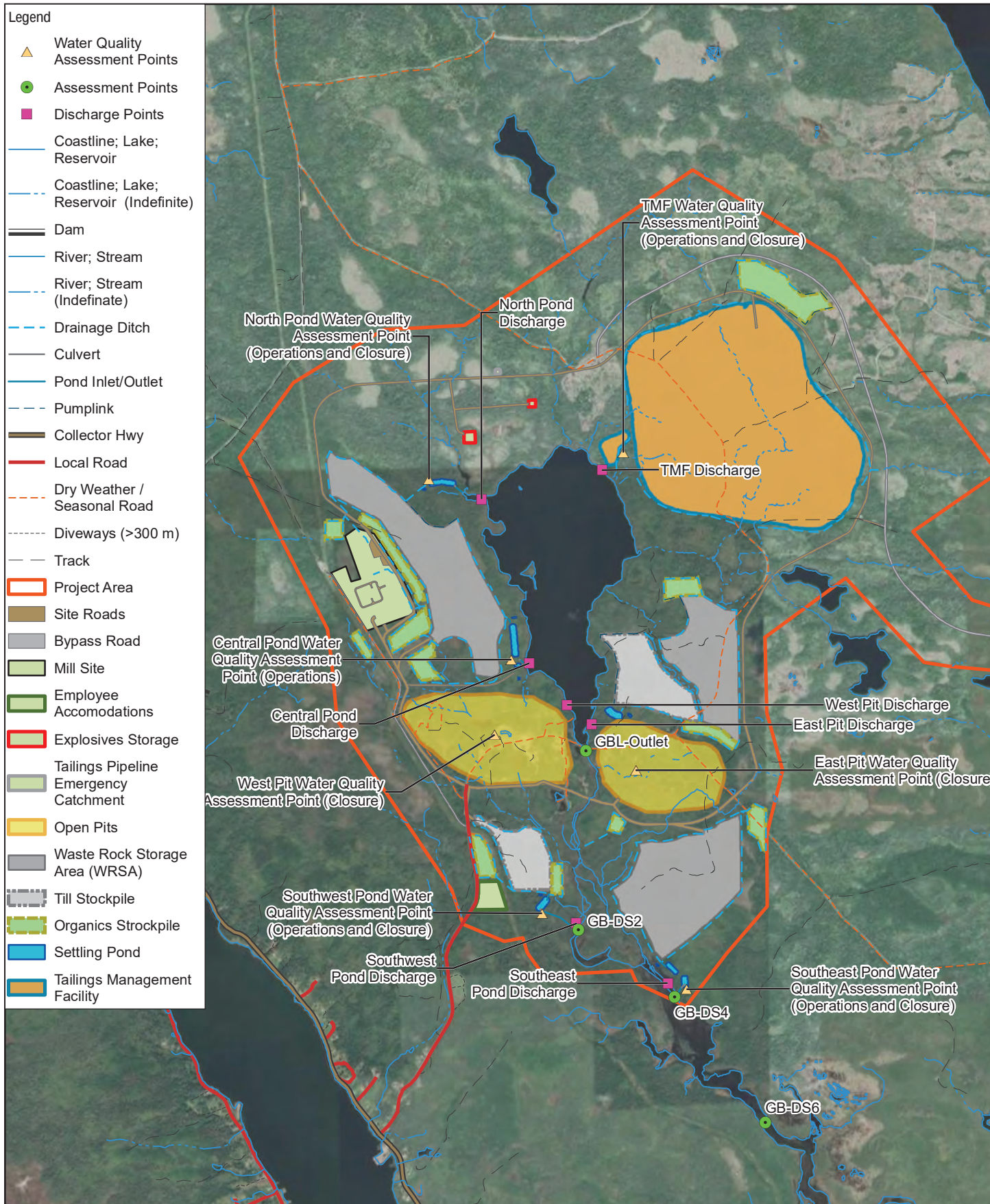
Constituent concentrations in Gold Brook Lake and Gold Brook were calculated once full-mixing has been reached.

Gold Brook Lake is the receiving water body for 5 discharge points during mining activities: the Tailings Management Facility discharge, North Settling Pond discharge, Central Settling Pond discharge (during operations only), West Pit discharge (once the West Pit has filled with water in the reclamation phase) and East Pit discharge (once the East Pit has filled with water in the reclamation phase). The effluent from each of the Gold Brook Lake assessment points were found to fully mix within 100 m of the discharge points. However, for all discharge locations into Gold Brook Lake, one assessment point was used for the entire lake in order to capture all constituent loading entering the Lake. This assessment point presents the water quality within Gold Brook Lake once all discharge locations have been

considered. As such, the Gold Brook Lake assessment point presents the worst-case concentrations for concentrations within Gold Brook Lake.

Within Gold Brook, full mixing was found to occur in less than 100 m at both discharge locations. As such, water quality assessment points were established 100 m downstream of each discharge point into Gold Brook.

The predictive water quality assessment points are shown on **Figure 3.1**.



Paper Size ANSI A
0 200 400 600 800
Metres

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 20N



ANACONDA MINING INC.
GOLDBORO GOLD PROJECT
PREDICTIVE WATER QUALITY ASSESSMENT

MINE DISCHARGE AND WATER
QUALITY ASSESSMENT POINTS

Project No. 11222385
Revision No. -
Date Apr 13, 2022

FIGURE 3-1

3.5 Predictive Water Quality Assessment Results

Predictive water quality results were calculated for Base-Case and Upper-Case conditions are the following 5 scenarios:

- Mid-Extraction (representative year – Year 8)
- Full Extraction (representative year – Year 12)
- East Pit Filled (representative year – Year 21)
- West Pit Filled (representative year – Year 37)
- Perpetuity (representative year – Year 50)

The results of the predictive water quality analysis were compared to MDMER regulatory limits (at each discharge point during operations) as well as CCME, Tier 1 EQS and SSWQGs within the receiving watercourse upon full mixing (see **Table 2.1** for details on the applicable regulatory limits and **Section 3.4.1** for details on the mixing zone modelling assessment). A summary of which regulatory limits are applicable at which discharge locations is shown in **Table 3.7**. MDMER criteria are applicable at all discharge points during operations while CCME and Tier 1 EQS guidelines are applicable at assessment points within Gold Brook Lake and Gold Brook itself during all stages of mine development and closure. SSWQGs have been established individually for Gold Brook Lake and Gold Brook due to changes in background water quality between the two waterbodies. Refer to **Section 2.2** for further details on the application of CCME, Tier 1 EQS and SSWQG as it relates to constituent concentrations in the receiving waterbody.

Table 3.7 Applicable Regulatory Limits Summary

Location	Regulatory Criteria									
	MDMER		CCME		Tier 1 EQS		Gold Brook Lake SSWQG		Gold Brook SSWQG	
	During Operations	After Closure	During Operations	After Closure	During Operations	After Closure	During Operations	After Closure	During Operations	After Closure
North Settling Pond	x	--	--	--	--	--	--	--	--	--
TMF	x	--	--	--	--	--	--	--	--	--
Central Settling Pond	x	NA	--	NA	--	NA	--	NA	--	NA
West Pit	NA	--	NA	--	NA	--	NA	--	NA	--
East Pit	NA	--	NA	--	NA	--	NA	--	NA	--
Southeast Settling Pond	x	--	--	--	--	--	--	--	--	--
Southwest Settling Pond	x	--	--	--	--	--	--	--	--	--
Gold Brook Lake	--	--	x	x	x	x	x	x	--	--
Gold Brook DS2	--	--	x	x	x	x	--	--	x	x
Gold Brook DS4	--	--	x	x	x	x	--	--	x	x
Gold Brook DS6	--	--	x	x	x	x	--	--	x	x
NA - No discharge from this location during this scenario -- - Regulatory Limits are not applicable to this location during this scenario x - Regulatory Limits are applicable to this location during this scenario										

A summary of the results of the predictive water quality analysis can be found in **Appendix C**. A summary of the predicted exceedances in each scenario are shown in **Table 3.8**.

Table 3.8 Predictive Water Quality Assessment Results Summary

Location	Mid-Extraction - Year 8		Full-Extraction - Year 12		East Pit Filled - Year 21		West Pit Filled - Year 37		Perpetuity - Year 50	
	Base Case	Upper Case	Base Case	Upper Case	Base Case	Upper Case	Base Case	Upper Case	Base Case	Upper Case
North Settling Pond	Arsenic	Arsenic	--	Arsenic	NA	NA	NA	NA	NA	NA
TMF	Arsenic	Arsenic, Cyanide	Arsenic	Arsenic, Cyanide	NA	NA	NA	NA	NA	NA
Central Settling Pond	Arsenic	Arsenic	NA	NA	NA	NA	NA	NA	NA	NA
West Pit	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
East Pit	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Southeast Settling Pond	--	Arsenic	--	--	NA	NA	NA	NA	NA	NA
Southwest Settling Pond	--	--	--	--	NA	NA	NA	NA	NA	NA
Gold Brook Lake	Arsenic, Cobalt, Ammonia, Cyanide	Arsenic, Cobalt, Ammonia, Un-ionized Ammonia, Nitrite, Cyanide	Arsenic, Cobalt, Copper, Cyanide	Arsenic, Cobalt, Copper, Ammonia, Cyanide	--	--	--	--	--	--
Gold Brook DS2	Cobalt, Ammonia, Cyanide	Cobalt, Ammonia, Un-ionized Ammonia, Nitrite, Cyanide	Cobalt, Copper, Cyanide	Cobalt, Copper, Ammonia, Cyanide	--	Lead ¹	--	--	--	--
Gold Brook DS4	Ammonia, Cyanide	Ammonia, Cyanide	Cyanide	Cyanide	--	--	--	--	--	--
Gold Brook DS6	Ammonia, Cyanide	Ammonia, Cyanide	Cyanide	Cyanide	--	--	--	--	--	--

NA - No discharge from this location during this scenario

-- - No predicted exceedances from this location

¹ Refer to Section 3.5.3 for further discussion regarding the predicted exceedance of applicable regulatory limits by Lead in Upper Case conditions of the East Pit Filled scenario

3.5.1 Mid-Extraction Predictive Water Quality

During the Mid-Extraction scenario the North Settling Pond, TMF, Central Settling Pond, Southeast Settling Pond and Southwest Settling Pond are discharging to the natural environment. A summary of the predictive water quality results for the Mid-Extraction scenario are shown in **Table 3.9**.

Table 3.9 Mid-Extraction Predictive Water Quality Results Summary

Location	Base Case			Upper Case		
	Predicted Exceedances	Months of Exceedance	Maximum Concentration (µg/L)	Predicted Exceedances	Months of Exceedance	Maximum Concentration (µg/L)
North Settling Pond	Arsenic	12	139	Arsenic	12	355
TMF	Arsenic	12	296	Arsenic	12	466
	--	--	--	Cyanide	12	787
Central Settling Pond	Arsenic	5	112	Arsenic	12	266
West Pit	NA			NA		
East Pit	NA			NA		
Southeast Settling Pond	--	--	--	Arsenic	3	133
Southwest Settling Pond	--	--	--	--	--	--
Gold Brook Lake	Arsenic	6	87	Arsenic	12	180
	Cobalt	1	2.19	Cobalt	7	3.66
	Ammonia	12	528	Ammonia	12	2406
	Cyanide	12	28	Un-ionized Ammonia	4	23.4
	--	--	--	Nitrite	12	394
	--	--	--	Cyanide	12	55.8
Gold Brook DS2	Cobalt	1	2.13	Cobalt	6	3.55
	Ammonia	12	516	Ammonia	12	2333
	Cyanide	12	27.1	Un-ionized Ammonia	3	22.7
	--	--	--	Nitrite	9	382
	--	--	--	Cyanide	12	54
Gold Brook DS4	Ammonia	6	125	Ammonia	12	556
	Cyanide	4	6.41	Cyanide	9	12.7
Gold Brook DS6	Ammonia	5	114	Ammonia	12	507
	Cyanide	2	5.82	Cyanide	9	11.6

Arsenic is predicted to exceed MDMER regulatory limits in the North Settling Pond, TMF, Central Settling Pond in both Base-Case and Upper-Case conditions as well as in the Southeast Settling Pond in Upper Case conditions. Cyanide is also predicted to exceed MDMER regulatory limits in the TMF in Upper Case conditions.

Exceedances of applicable regulatory limits (more conservative limit between CCME and Tier 1 EQS, over-ridden by SSWQG if developed, see **Table 2.1** for further details) in Gold Brook Lake during the Mid-Extraction scenario include Arsenic (BC and UC), Cobalt (BC and UC), Ammonia (BC and UC), Un-ionized Ammonia (UC), Nitrite (UC) and Cyanide (BC and UC).

Exceedances of applicable regulatory limits in Gold Brook at Downstream Assessment Point #2 include Cobalt (BC and UC), Ammonia (BC and UC), Un-ionized Ammonia (UC), Nitrite (UC) and Cyanide (BC and UC) during the Mid-Extraction scenario.

The predicted water quality improves in Gold Brook Downstream Assessment Point #4 and #6 as exceedances are limited to Ammonia (BC and UC) and Cyanide (BC and UC) during the Mid-Extraction scenario due to additional dilution water from non-contact water runoff.

3.5.2 Full-Extraction Predictive Water Quality

During the Full-Extraction scenario the North Settling Pond, TMF, and Southeast Settling Pond are discharging to the natural environment. A summary of the predictive water quality results for the Full-Extraction scenario are shown in **Table 3.10**.

Table 3.10 Full-Extraction Predictive Water Quality Results Summary

Location	Base Case			Upper Case		
	Predicted Exceedances	Months of Exceedance	Maximum Concentration (µg/L)	Predicted Exceedances	Months of Exceedance	Maximum Concentration (µg/L)
North Settling Pond	--	--	--	Arsenic	2	119
TMF	Arsenic	12	241.8	Arsenic	12	434
	--	--	--	Cyanide	12	532.9
Central Settling Pond	NA			NA		
West Pit	NA			NA		
East Pit	NA			NA		
Southeast Settling Pond	--			--		
Southwest Settling Pond	NA			NA		
Gold Brook Lake	Arsenic	4	77.2	Arsenic	8	129
	Cobalt	6	3.92	Cobalt	9	6.20
	Copper	4	2.74	Copper	6	3.51
	Cyanide	12	65.2	Ammonia	4	85.8
	--	--	--	Cyanide	12	130
Gold Brook DS2	Cobalt	9	3.55	Cobalt	9	5.62
	Copper	4	2.52	Copper	4	3.22
	Cyanide	12	58.7	Ammonia	4	88.3
	--	--	--	Cyanide	12	117
Gold Brook DS4	Cyanide	8	13.4	Cyanide	12	26.7
Gold Brook DS6	Cyanide	8	11.7	Cyanide	10	23.3

In the Full-Extraction scenario Arsenic is predicted to exceed MDMER regulatory limits in the TMF in both Base-Case and Upper-Case conditions as well as in the North Settling Pond in Upper-Case conditions. Cyanide is also predicted to exceed MDMER regulatory limits in the TMF in Upper-Case conditions.

Exceedances of applicable regulatory limits in Gold Brook Lake during the Full-Extraction scenario include Arsenic (BC and UC), Cobalt (BC and UC), Copper (BC and UC), Ammonia (UC) and Cyanide (BC and UC).

Exceedances of applicable regulatory limits in Gold Brook at Downstream Assessment Point #2 include Cobalt (BC and UC), Copper (BC and UC), Ammonia (UC) and Cyanide (BC and UC) during the Full-Extraction scenario.

The predicted water quality improves in Gold Brook Downstream Assessment Point #4 and #6 as exceedances are limited to Cyanide (BC and UC) during the Full-Extraction scenario due to additional dilution water from non-contact water runoff.

3.5.3 East Pit Filled Predictive Water Quality

During the East Pit Filled scenario the North Settling Pond, TMF, East Pit, and Southeast Settling Pond are discharging to the natural environment. A summary of the predictive water quality results for the East Pit Filled scenario are shown in **Table 3.11**.

Table 3.11 East Pit Filled Predictive Water Quality Results Summary

Location	Base Case			Upper Case		
	Predicted Exceedances	Months of Exceedance	Maximum Concentration (µg/L)	Predicted Exceedances	Months of Exceedance	Maximum Concentration (µg/L)
North Settling Pond	--	--	--	--	--	--
TMF	--	--	--	--	--	--
Central Settling Pond	NA			NA		
West Pit	NA			NA		
East Pit	--	--	--	--	--	--
Southeast Settling Pond	--	--	--	--	--	--
Southwest Settling Pond	NA			NA		
Gold Brook Lake	--	--	--	--	--	--
Gold Brook DS2	--	--	--	See Text Below		
Gold Brook DS4	--	--	--	--	--	--
Gold Brook DS6	--	--	--	--	--	--

In the East Pit Filled scenario MDMER regulatory limits no longer apply to the discharge as operations of the Mine have ended.

There are no predicted exceedances of applicable regulatory limits at any of the four assessment points during Base-Case or Upper-Case conditions. It is noted that the maximum predicted concentration of Lead at Downstream Assessment Point #2 is 1.09 µg/L and marginally exceeds the SSWQG of 1.0 µg/L established for Gold Brook. However, this predicted maximum concentration is within the Data Quality Objectives (DQO) set by laboratories for acceptable variation between duplicate samples based on Relative Percent Differences of 20% or an absolute difference of less than 1 times the detection limit (detection limits for lead in surface water are typically set at 0.5 µg/L). This limit is based on the United States Environmental Protection Agency guidance for inorganic analysis of aqueous materials (USEPA, 2006). For comparison, the relative percent difference between the maximum concentration of lead and the SSWQG is 8.6% and well within laboratory DQOs and quality control standards. As such, the maximum predicted concentration of lead in Gold Brook Lake was considered equal to the SSWQG and not identified as an exceedance under the East Pit Filled Predictive Water Quality scenario.

3.5.4 West Pit Filled Predictive Water Quality

During the West Pit Filled scenario the North Settling Pond, TMF, West Pit, East Pit, and Southeast Settling Pond are discharging to the natural environment. A summary of the predictive water quality results for the West Pit Filled scenario are shown in **Table 3.12**.

Table 3.12 West Pit Filled Predictive Water Quality Results Summary

Location	Base Case			Upper Case		
	Predicted Exceedances	Months of Exceedance	Maximum Concentration (µg/L)	Predicted Exceedances	Months of Exceedance	Maximum Concentration (µg/L)
North Settling Pond	--	--	--	--	--	--
TMF	--	--	--	--	--	--
Central Settling Pond	NA			NA		
West Pit	--	--	--	--	--	--
East Pit	--	--	--	--	--	--
Southeast Settling Pond	--	--	--	--	--	--
Southwest Settling Pond	NA			NA		
Gold Brook Lake	--	--	--	--	--	--
Gold Brook DS2	--	--	--	--	--	--
Gold Brook DS4	--	--	--	--	--	--
Gold Brook DS6	--	--	--	--	--	--

In the West Pit Filled scenario MDMER regulatory limits no longer apply to the discharge as operations of the Mine have ended.

There are no predicted exceedances in any of the four assessment points during Base Case or Upper-Case conditions during the East Pit Filled scenario.

3.5.5 Perpetuity Predictive Water Quality

During the Perpetuity scenario the North Settling Pond, TMF, West Pit, East Pit, and Southeast Settling Pond are discharging to the natural environment. A summary of the predictive water quality results for the Perpetuity scenario are shown in **Table 3.13**.

Table 3.13 Perpetuity Predictive Water Quality Results Summary

Location	Base Case			Upper Case		
	Predicted Exceedances	Months of Exceedance	Maximum Concentration (µg/L)	Predicted Exceedances	Months of Exceedance	Maximum Concentration (µg/L)
North Settling Pond	--	--	--	--	--	--
TMF	--	--	--	--	--	--
Central Settling Pond	NA			NA		

Location	Base Case			Upper Case		
	Predicted Exceedances	Months of Exceedance	Maximum Concentration (µg/L)	Predicted Exceedances	Months of Exceedance	Maximum Concentration (µg/L)
West Pit	--	--	--	--	--	--
East Pit	--	--	--	--	--	--
Southeast Settling Pond	--	--	--	--	--	--
Southwest Settling Pond	NA			NA		
Gold Brook Lake	--	--	--	--	--	--
Gold Brook DS2	--	--	--	--	--	--
Gold Brook DS4	--	--	--	--	--	--
Gold Brook DS6	--	--	--	--	--	--

In the Perpetuity scenario MDMER regulatory limits no longer apply to the discharge as operations of the Mine have ended.

There are no predicted exceedances in any of the four assessment points during Base Case or Upper-Case conditions during the Perpetuity scenario.

4. Predicted Water Treatment

4.1 Predicted Treatment Requirements

As presented in **Section 3.5** certain constituents are predicted to exceed regulatory limits either in effluent discharge or within the receiving watercourse due to impacts of the Project on the water quality of the runoff. During times where there are predicted exceedances of regulatory limits occurring, treatment of the effluent will be required to ensure water quality entering as well as the fully-mixed constituent of concern concentrations in the receiving water body are below regulatory limits.

To determine the predicted water treatment requirement, the development and reclamation of the Project was broken into 11 different time periods where the treatment requirements are relatively similar, as summarized in **Table 4.1**. Representative years for each time period were chosen to determine the treatment requirements as it relates to constituents requiring treatment and the amount of treatment required to meet regulatory limits. The year with the largest number of months of exceedances of constituents of concern during Upper-Case conditions was selected as the representative year.

Table 4.1 Predicted Treatment Segments

Mine Life Period	Years	Representative Water Quality Year	Total Months of Exceedance – Upper Case Conditions
Early Operations	0-8	7	57
Late Operations	9 - 11	10	26
East Pit Filling – 1	12	12	39
East Pit Filling – 2	13	13	22
East Pit Filling – 3	14 - 18	15	23

Mine Life Period	Years	Representative Water Quality Year	Total Months of Exceedance – Upper Case Conditions
East Pit Filling – 4	19-20	19	No Exceedances
West Pit Filling – 1	21- 27	21	No Exceedances ^a
West Pit Filling – 2	28 – 30	28	No Exceedances
West Pit Filling – 3	31 – 36	31	No Exceedances
End of Mine – 1	37	37	No Exceedances
End of Mine – 2	>38	38	No Exceedances
^a Lead concentrations in 2 months of the year are predicted to exceed applicable regulatory limits, however, as discussed in Section 3.5.3. these concentrations are within the set DQO for acceptable variation. As such, no exceedances are predicted during this period of mine life			

Treatment requirements have been broken into three (3) different categories: Metals, Nitrogen Species and Cyanide treatment requirements. During each stage of the Mine life established in **Table 4.1** the treatment requirements were calculated for each of these 3 categories based on the predictive water quality assessment results for the Upper-Case conditions. The treatment requirements are summarized in **Table 4.2**.

As indicated in **Table 4.2** active treatment will be required for the first 13 years of the mine life. Following 13 years of active treatment, passive treatment is predicted to be required for the following 5 years for a total of treating Site effluent for 18 years. No treatment is predicted to be required following Year 18. Potential treatment methods during each segment of Mine life are discussed the Goldboro Impacted Water Treatment System memorandum (GHD, 2022c).

Table 4.2 Predicted Treatment Requirements

Constituent	Early Operations	Late Operations	East Pit Filling - 1	East Pit Filling - 2	East Pit Filling - 3	East Pit Filling - 4	West Pit Filling - 1	West Pit Filling - 2	West Pit Filling - 3	End of Mine - 1	End of Mine - 2
	Years 0-8	Years 9-11	Year 12	Year 13	Years 14-18	Years 19-20	Years 21-27	Years 28-30	Years 31-36	Year 37	>Year 38
As	x	X	x	x							
Be				x							
Cr					x						
Co	x	X	x	x							
Cu	x	X	x		x						
Pb					x						
Zn					x						
Ammonia	x	X	x								
Un-ionized Ammonia	x										
Nitrite	x										
Cyanide	x	X	x	x							
Treatment Requirements											
Metals Treatment Removal Efficiency Required	70-80% Removal	50-55% Removal	70-80% Removal	50-55% Removal	80-85% Removal	NA	NA	NA	NA	NA	NA
Nitrogen Series Treatment Removal Efficiency	98-99% Removal	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide Treatment Removal Efficiency	90-95% Removal	90-95% Removal	96-97% Removal	90-95% Removal	NA	NA	NA	NA	NA	NA	NA
Treatment Methodology											
Active Treatment	x	x	x	x							
Passive Treatment					x						

4.1.1 Metals Treatment Requirements

As shown in **Table 4.2**, treatment for metals during the Upper-Case conditions is required between the start of operation and year 18 with varying degrees of treatment depending on the segment of time. Maximum treatment requirements occur in years 14 to 18 where 80-85% of the exceeded metals will need to be removed in order to meet regulatory limits in Gold Brook Lake and Gold Brook. No treatment of metals are required past Year 18.

4.1.2 Nitrogen Treatment Requirements

As shown in **Table 4.2**, treatment for nitrogen series constituents (i.e., ammonia, un-ionized ammonia, nitrite, nitrate) during the Upper-Case conditions is required for the Early Operations segment (i.e., start of operations until year 8). Treatment requirements indicate that 98% to 99% of the nitrogen series constituents must be removed in order to meet applicable regulatory limits in Gold Brook Lake and Gold Brook. No treatment of the nitrogen series constituents is required past Year 8.

4.1.3 Cyanide Treatment Requirements

As shown in **Table 4.2**, treatment for cyanide during the Upper-Case conditions is required until the end of Year 13. The maximum removal requirements of cyanide occur in Year 12 when 96% to 97% of cyanide in the effluent discharge must be removed in order to meet applicable regulatory limits in Gold Brook Lake and Gold Brook. No treatment of Cyanide is required past Year 13.

4.2 Predicted Concentrations Post-Treatment

Following treatment of the effluent as outlined in **Section 4.1**, the concentrations of constituents of concern present will meet or will be below the MDMER criteria. In addition, concentrations of constituents of concern will be fully mixed into the receiving water body within 100 m of the discharge point (see **Section 3.4.1** for more details) and will meet or be below the applicable regulatory limit (more conservative limit between CCME and Tier 1 EQS, over-ridden by SSWQG if developed, see **Table 2.1** for further details) for Gold Brook Lake or Gold Brook. Refer to the Impacted Water Treatment System memo (GHD, 2022c) for further details on the treatment technologies which are to be implemented.

5. Methodological Conservatism

The predictive water quality assessment presented in this report is to be used to 1) determine whether the Project has the potential to result in water quality impacts to Gold Brook Lake and Gold Brook and 2) if water treatment is required over the course of operations and reclamation. The results are predictive in nature and are expected to be refined using site-specific monitoring data collected during construction, operation and following closure of the Goldboro mine.

Conservatism has been included throughout the assessment including the use of the Upper-Case source terms for the constituents of concern in the analysis.

6. Conclusion & Future Works

The predictive water quality assessment provides insight into the potential effect of the Project operations on Gold Brook Lake and Gold Brook during average climate conditions.

The predictive water quality assessment determined potential for exceedance of MDMER regulatory limits of Arsenic and Cyanide in the North Settling Pond, TMF, Central Settling Pond and Southeast Settling Pond during Mid-Extraction and Full-Extraction conditions.

The predictive water quality assessment determined potential for exceedance of the CCME, Tier 1 EQS or SSWQG regulatory limits set for this project by Arsenic, Beryllium, Chromium, Cobalt, Copper, Lead, Zinc, Ammonia, Un-ionized Ammonia, Nitrite and Cyanide in Gold Brook Lake and/or Gold Brook over the course of mine development and reclamation.

This water quality assessment demonstrates the need for treatment of the mine effluent water prior to discharge into Gold Brook Lake and Gold Brook from the start of mine development up until Year 38 in varying degrees of frequency and magnitude. No further treatment of mine water discharge is predicted to be required following Year 38.

GHD recognizes the predictive nature of the results presented in this memo, including the potential for source terms to present in Base-Case or Upper-Case conditions. The results are expected to be refined using site-specific monitoring data collected during construction, operation and following closure of the Project.

7. References

- Emerson et al., 1975, Aqueous Ammonia Equilibrium Calculations: Effect of pH and Temperature
- GHD, 2022a, Water Balance Assessment
- GHD, 2022b, Groundwater Assessment
- GHD, 2022c, Goldboro Impacted Water Treatment Systems (IWTS)
- GHD, 2022d, Initial Dilution Zone Study
- Knight Piesold Ltd., 2022, Tailings Management Facility Water Balance and Water Quality Report
- Lorax Environmental, 2022a, Email communication with Timo Kirchner on March 30, 2022
- Lorax Environmental, 2022b, Goldboro Project: Geochemistry Report
- Metal and Diamond Mining Effluent Regulations (MDMER), 2022, Metal and Diamond Mining Effluent Regulations, Schedule 4, Table 1
- Nova Scotia Environment (NSE), 2021, Tier 1 Environmental Quality Standards (EQS) for Surface Water and Groundwater Discharging to Surface Water (µg/L)
- USEPA, 2006b. USEPA Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO5.3 (SOP Revision 13), September 2006.

Appendices

Appendix A

Goldboro Project Source Terms and Regulatory Analysis

Location	Time	Scenario	pH	Al	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Fe	Pb	Mn
			mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SE Dump	Short-term	Base Case	7.5	24.8	6.9	163.1	8.6	0.5	0.038	1.0	2.5	0.6	120.0	1.1	140.0
		Upper Case	6.5	66.1	13.9	416.8	17.1	1.0	0.076	2.0	5.0	1.0	240.1	2.1	280.1
	Long-term	Base Case	7.0	16.0	6.9	104.5	8.6	0.5	0.038	1.0	2.5	0.5	120.0	1.1	140.0
		Upper Case	6.0	42.8	13.8	267.1	17.1	1.0	0.076	2.0	5.0	0.8	240.1	2.1	280.1
NE Dump	Short-term	Base Case	7.5	25.5	7.1	168.7	8.6	0.5	0.038	1.0	2.5	0.6	120.0	1.1	140.0
		Upper Case	6.5	67.9	14.1	431.3	17.1	1.0	0.076	2.0	5.0	1.0	240.1	2.1	280.1
	Long-term	Base Case	7.0	16.4	7.0	107.2	8.6	0.5	0.038	1.0	2.5	0.5	120.0	1.1	140.0
		Upper Case	6.0	43.8	14.0	274.0	17.1	1.0	0.076	2.0	5.0	0.8	240.1	2.1	280.1
NW Dump	Short-term	Base Case	7.5	23.9	6.7	154.3	8.6	0.5	0.038	1.0	2.5	0.6	120.0	1.1	140.0
		Upper Case	6.5	63.7	13.5	394.5	17.1	1.0	0.076	2.0	5.0	0.9	240.1	2.1	280.1
	Long-term	Base Case	7.0	15.4	6.7	99.1	8.6	0.5	0.038	1.0	2.5	0.5	120.0	1.1	140.0
		Upper Case	6.0	41.0	13.4	253.2	17.1	1.0	0.076	2.0	5.0	0.8	240.1	2.1	280.1
Backfill	Short-term	Base Case	7.5	22.5	6.5	144.0	8.6	0.5	0.038	1.0	2.5	0.6	120.0	1.1	140.0
		Upper Case	6.5	59.9	13.0	368.1	17.1	1.0	0.076	2.0	5.0	0.9	240.1	2.1	280.1
	Long-term	Base Case	7.0	14.8	6.5	95.6	8.6	0.5	0.038	1.0	2.5	0.5	120.0	1.1	140.0
		Upper Case	6.0	39.6	12.9	244.3	17.1	1.0	0.076	2.0	5.0	0.8	240.1	2.1	280.1
Pit Wall	Short-term	Base Case	7.5	20.0	7.5	309.4	8.6	0.5	0.010	1.0	2.5	0.2	120.0	1.1	139.8
		Upper Case	6.5	28.4	15.0	739.0	17.1	1.0	0.016	2.0	5.0	1.7	240.0	2.1	280.0
	Long-term	Base Case	6.9	18.6	11.4	231.3	8.6	0.5	0.022	1.2	2.5	0.3	149.7	1.1	140.0
		Upper Case	5.9	26.4	20.0	552.5	32.5	1.9	0.105	2.3	9.5	3.4	263.6	4.0	532.1
Till Stockpile	Short-term	Upper Case	5.2	148.3	0.9	2.5	10.7	0.0	0.038	2.8	0.5	2.6	352.5	1.2	22.0
Organics Stockpile	0	Upper Case	3.8	809.1	0.9	7.2	38.0	0.1	0.180	2.1	1.2	7.9	420.0	11.4	92.3
MDMER (µg/L)			--	--	--	100	--	--	--	--	--	100	--	80	--
CCME (µg/L)			6.5-9.0	5 ^a	20	5	--	--	0.04 ^b	--	--	2 ^d	300	1 ^e	200 ^f
Tier 1 EQS (µg/L)			--	5	9	5	1000	0.15	0.09	1	1	2	300	1	430
Applicable Criteria			Varies	Varies	9.000	Varies	1000.00	Varies	0.040	1.000	1.000	2.000	Varies	1.000	200.0
Gold Brook Lake Background Concentrations			4.94	329.000	0.529	19.300	2.54	0.424	0.015	0.515	0.218	0.574	493	0.514	18.9
Gold Brook Background Concentrations (µg/L)			5.89	257	0.507	184	2.47	0.476	0.013	0.700	0.208	0.788	620	0.449	33.5

Location	Time	Scenario	Hg	Ni	Se	Ag	Tl	U	V	Zn	Ammonia (N)	Unionized Ammonia (N)	Nitrite (as N)	Nitrate (as N)	Cyanide
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug N/L	ug N/L	ug N/L	ug N/L	ug/L
SE Dump	Short-term	Base Case	0.007	21.5	0.5	0.1	0.1	1.6	5.0	18.1	370.0	3.6	200.0	23000.0	0.0
		Upper Case	0.013	62.0	1.0	0.2	0.2	3.1	10.0	68.9	650.0	6.4	350.0	41000.0	0.0
	Long-term	Base Case	0.007	28.0	0.5	0.1	0.1	1.6	3.5	18.3	--	--	--	--	0.0
		Upper Case	0.013	62.0	1.0	0.2	0.2	3.1	7.1	69.5	--	--	--	--	0.0
NE Dump	Short-term	Base Case	0.007	21.1	0.5	0.1	0.1	1.6	5.2	18.4	370.0	3.6	200.0	23000.0	0.0
		Upper Case	0.013	62.0	1.0	0.2	0.2	3.1	10.3	69.8	660.0	6.5	360.0	41000.0	0.0
	Long-term	Base Case	0.007	28.5	0.5	0.1	0.1	1.6	3.6	18.6	--	--	--	--	0.0
		Upper Case	0.013	62.0	1.0	0.2	0.2	3.1	7.3	70.5	--	--	--	--	0.0
NW Dump	Short-term	Base Case	0.007	22.5	0.5	0.1	0.1	1.6	4.8	17.8	310.0	3.0	170.0	19000.0	0.0
		Upper Case	0.013	62.0	1.0	0.2	0.2	3.1	9.6	67.5	550.0	5.4	300.0	34000.0	0.0
	Long-term	Base Case	0.007	27.5	0.5	0.1	0.1	1.6	3.4	17.9	--	--	--	--	0.0
		Upper Case	0.013	62.0	1.0	0.2	0.2	3.1	6.8	68.0	--	--	--	--	0.0
Backfill	Short-term	Base Case	0.007	22.7	0.5	0.1	0.1	1.6	4.5	17.3	770.0	7.5	420.0	48000.0	0.0
		Upper Case	0.013	62.0	1.0	0.2	0.2	3.1	9.0	65.8	1400.0	13.7	740.0	86000.0	0.0
	Long-term	Base Case	0.007	26.1	0.5	0.1	0.1	1.6	3.2	17.4	--	--	--	--	0.0
		Upper Case	0.013	62.0	1.0	0.2	0.2	3.1	6.5	66.2	--	--	--	--	0.0
Pit Wall	Short-term	Base Case	0.007	31.0	0.5	0.1	0.1	1.6	2.7	9.0	3200.0	31.4	270.0	5800.0	0.0
		Upper Case	0.013	62.0	1.0	0.2	0.2	3.1	5.3	11.7	16000.0	156.8	2400.0	15000.0	0.0
	Long-term	Base Case	0.008	31.0	0.7	0.1	0.1	1.6	2.0	33.4	--	--	--	--	0.0
		Upper Case	0.014	117.8	1.3	0.2	0.2	6.0	4.1	43.4	--	--	--	--	0.0
Till Stockpile	Short-term	Upper Case	0.010	1.1	1.2	0.1	0.0	0.1	1.5	33.0	300.0	2.9	30.0	350.0	0.0
Organics Stockpile	0	Upper Case	0.020	3.1	1.0	0.1	0.2	0.2	3.6	164.0	1400.0	13.7	30.0	620.0	0.0
MDMER (µg/L)			--	250	--	--	--	--	--	400	--	500	--	--	500
CCME (µg/L)			0.026	25 ^a	1	0.25	0.8	15	--	7 ^h	69.7	19	60	13000	5
Tier 1 EQS (µg/L)			0.026	25	1	0.25	0.8	15	120	7	--	--	--	--	--
Applicable Criteria			0.03	25.00	1.000	0.250	0.800	15.000	120.00	7.00	69.7	19.000	60.0	13000.00	5.00
Gold Brook Lake Background Concentrations			0.01	1.00	0.324	0.050	0.050	0.053	1.00	5.94	30.9	0.120	6.4	28.90	0.00
Gold Brook Background Concentrations (µg/L)			0.033	1.08	0.401	0.050	0.050	0.051	1.01	4.44	59.4	0.232	5.92	71.6	0.00

Appendix B

Site Specific Water Quality Compliance Memo

Memorandum

May 20, 2022

To	Chris Muirhead		
Copy to	Callie Andrews, Glen Merkley		
From	Steve Jones	Tel	+1 860 747-8348
Subject	Site-Specific Water Quality Compliance Criteria	Project no.	11222385

Introduction

The Nova Scotia Tier I Environmental Quality Standards (EQS) for surface water (Nova Scotia Environment, 2021) are adopted from a number of sources, including the Canadian Ministers of the Environment (CCME) and Environment Canada (EC). Water quality guidelines developed by CCME and EC, as well as other regulatory agencies, are conservative in that they are protective of the most sensitive species. As generic water quality guidelines are intended to apply to all surface waters, they do not account for natural conditions that can influence ambient water quality, such as regional geochemistry. Therefore, it is common practice in Canada, including Nova Scotia, and throughout North America to derive site-specific water quality guidelines that account for background concentrations, hardness, pH, and dissolved organic carbon (DOC). Consideration of background is particularly important in deriving site-specific water guidelines. ProUCL, a statistical software package developed by the United States Environmental Protection Agency (USEPA, 2015), is used widely in Canada to calculate a number of statistics for chemical concentrations in surface water and other environmental media, including Background Threshold Values (BTVs).

The memorandum describes the development and identifies Site-specific water quality compliance criteria (SSWQCC) for cadmium, cobalt, lead, zinc, and nitrite for Gold Brook Lake and Gold Brook related to the Goldboro Gold Project.

Methods

As many natural environmental factors can affect ambient water quality, the first step in development of SSWQCC was calculation of background concentrations of cadmium, cobalt, lead, zinc, and nitrite in Gold Brook Lake and Gold Brook. Background concentrations were calculated as Background Threshold Values (BTVs) using ProUCL, Version 5.1 (USEPA, 2015). Specifically, BTVs were 95 percent Upper Tolerance Limits (UTLs) with 95 percent coverage.

The second step was a review of the source documents for the Nova Scotia Tier I EQS for freshwater. The source documents were reviewed for the methods and rationale for derivation of the EQSs adopted by Nova Scotia. Modifications were made, as appropriate, for hardness, pH, and/or DOC in Gold Brook Lake and Gold Brook. The higher of the BTV and Site-specific EQS was selected as the SSWQCC.

Table 1 identifies the BTVs, Site-specific EQSs, and SSWQCC. The SSWQCC for cadmium, cobalt, lead, zinc, and nitrite are discussed below.

Site-Specific Water Quality Compliance Criteria

Cadmium

The Canadian Water Quality Guideline (CWQG) for long-term exposure of 0.09 microgram per liter ($\mu\text{g/L}$) (CCME, 2014) is the Nova Scotia Tier I EQS for cadmium. The CWQG is based on a species sensitivity distribution (SSD) for protection of the 5th percentile of 36 aquatic species used to derive the SSD. Endpoint concentrations range from 0.045 $\mu\text{g/L}$ to 76,500 $\mu\text{g/L}$. The lower and upper confidence limits (LCL and UCL, respectively), also referred to as fiducial limits in the source document, are 0.04 $\mu\text{g/L}$ and 0.024 $\mu\text{g/L}$, respectively. The BTV for cadmium for both Gold Brook Lake and Gold Brook is 0.045 $\mu\text{g/L}$. As is the case for many SSDs, the LCL (0.04 $\mu\text{g/L}$) is lower than the test endpoint (0.045 $\mu\text{g/L}$) for the most sensitive species (invertebrate: *Daphnia magna*).

The EQS for cadmium is hardness dependent. For Gold Brook Lake, the BTV for hardness is 15.6 $\mu\text{g/L}$ (Table 1). For Gold Brook, the BTV for hardness is 21 $\mu\text{g/L}$. These values for hardness result in Site-specific EQSs of 0.034 $\mu\text{g/L}$ and 0.043 $\mu\text{g/L}$ for Gold Brook Lake and Gold Brook, respectively. Both Site-specific EQSs are less than the BTV of 0.045 $\mu\text{g/L}$. Moreover, *D. magna* is the only one of the 36 aquatic species with a test endpoint less than 0.09 $\mu\text{g/L}$. The next lowest endpoint is 0.117 $\mu\text{g/L}$ for *Ceriodaphnia reticulata* (invertebrate). The CWQG of 0.09 $\mu\text{g/L}$ is selected as the SSWQCC for cadmium for Gold Brook Lake and Gold Brook.

Cobalt

The Federal Environmental Quality Guideline (FEQG) for long-term toxicity of 1.0 $\mu\text{g/L}$ (Environment Canada, 2017) is the Nova Scotia Tier I EQS for cobalt. The FEQG is based on the SSD for protection of the 5th percentile of 12 aquatic species used to derive the SSD. Endpoint concentrations range from 2.2 $\mu\text{g/L}$ to 2,055 $\mu\text{g/L}$. The LCL and UCL are 0.5 $\mu\text{g/L}$ and 2.0 $\mu\text{g/L}$, respectively. The BTVs for Gold Brook Lake and Gold Brook are 0.50 $\mu\text{g/L}$ and 0.98 $\mu\text{g/L}$, respectively. The LCL and UCL are both lower than the test endpoint (2.2 $\mu\text{g/L}$) for the most sensitive species (invertebrate: *Hyalella azteca*).

The EQS for cobalt is hardness dependent. The Site-specific EQSs are 0.47 $\mu\text{g/L}$ and 0.53 $\mu\text{g/L}$ for Gold Brook Lake and Gold Brook, respectively. Both CWQGs are less than the endpoint for the most sensitive species (2.2 $\mu\text{g/L}$). The next lowest test endpoint is 6.3 $\mu\text{g/L}$ for *Lemna minor* (plant). Conservatively, the SSD UCL 5th percentile of 2.0 $\mu\text{g/L}$ is selected as the SSWQCC for cobalt for Gold Brook Lake and Gold Brook.

Lead

The CWQG for long-term exposure of 1.0 $\mu\text{g/L}$ (CCME, 1999) is the Nova Scotia Tier I EQS for lead. The CWQG is a single value of 1.0 $\mu\text{g/L}$ for surface waters with hardness between 0 and 60 milligrams per liter (mg/L). Hardness for both Gold Brook Lake and Gold Brook is substantially below 60 mg/L . CCME has not produced a Fact Sheet for lead. The BTVs for Gold Brook Lake and Gold Brook are 1.42 $\mu\text{g/L}$ and 0.90 $\mu\text{g/L}$, respectively.

The BTV of 1.42 $\mu\text{g/L}$ is selected as the SSWQCC for Gold Brook Lake. The CWQG of 1.0 $\mu\text{g/L}$ is selected the as the SSWQCC for Gold Brook.

Zinc

The CWQG for long term exposure of 7.0 $\mu\text{g/L}$ (CCME, 2018) is the Nova Scotia Tier I EQS for dissolved zinc. The CWQG is based on the SSD for protection of the 5th percentile of 29 aquatic species used to derive the SSD. Endpoint concentrations range from 9.89 $\mu\text{g/L}$ to 1,696 $\mu\text{g/L}$. The source document (CCME 2018) does not identify a LCL or UCL. The BTVs for Gold Brook Lake and Gold Brook are 92 $\mu\text{g/L}$ and 14.7 $\mu\text{g/L}$, respectively. The CWQG is of 7.0 $\mu\text{g/L}$ is lower than the test endpoint (9.89 $\mu\text{g/L}$) for the most sensitive species (invertebrate: *Chironomus riparius*).

The EQS for zinc dependent on hardness, pH, and DOC. CCME (2018) identifies an equation to calculate Site-specific CWQGs to account for hardness, pH, and DOC. The equation is valid only for specified ranges of hardness (23.4 mg/L to 399 mg/L), pH (6.5 to 8.13 standard units), and DOC (0.3 mg/L to 22.9 mg/L). BTVs for hardness (15.6 mg/L) and pH (6.4) for Gold Brook Lake are outside the ranges for valid application of the equation. BTVs for hardness (21 mg/L) and DOC (26 mg/L) for Gold Brook are outside of the ranges for application of the equation.

Because application of the equation for calculating Site-specific EQSs for zinc is not valid, the SSWQCC for Gold Brook Lake and Gold Brook are the BTVs of 92 µg/L and 14.7 µg/L, respectively.

Nitrite

The CWQG for long-term exposure of 60 µg/L (CCME, 1999) is the Nova Scotia Tier I EQS for nitrite expressed as µg nitrite-nitrogen. This value is equivalent to 197 µg/L nitrite. CCME has not produced a Fact Sheet for nitrite. The BTVs for nitrite for Gold Brook Lake and Gold Brook are 25 µg/L to 24 µg/L, respectively.

The SSWQCC selected for Gold Brook Lake and Gold Brook is 197 µg/L nitrite.

Table 1 Site-Specific Water Quality Compliance Criteria

Parameter	Units	Gold Brook Lake			Gold Brook		
		BTV	EQS	Compliance Criterion	BTV	EQS	Compliance Criterion
Cadmium	µg/L	0.045	0.09 (0.04 ^a -0.24)	0.09	0.045	0.09 (0.04-0.24)	0.09
Cobalt	µg/L	0.50	1.0 (0.50-2.0 ^b)	2.0	0.48	1.0 (0.50-2.0)	2.0
Lead	µg/L	1.42	1.0	1.42	0.90	1.0	1.0
Zinc	µg/L	92.0	14.2	92.0	14.7	18.0	14.7
Nitrite	µg/L	25.0	197 ^c	197	24.0	197 ^c	197
Hardness	mg/L	15.6	---	---	21.0	---	---
DOC	mg/L	21.5	---	---	26.0	---	---
pH	SUs	6.4	---	---	7.2	---	---

Notes:

Red Font - Hardness and pH are outside the range for valid application of equation for calculation of a site-specific CWQG
Green Font - Hardness and DOC are outside the range for valid application of equation for calculation of a site-specific CWQG
 XX (YY-XX) - WQC (Lower Confidence Limit-Upper Confidence Limit)
 a - Effect concentration for the most sensitive species (0.045 µg/L) exceeds the Lower Confidence Limit (0.04 µg/L)
 b - Effect concentration for the most sensitive species (2.2 µg/L) exceeds the Upper Confidence Limit (2.0 µg/L)
 c - CWQG for Nitrite-Nitrogen is 60 µg/L. CWQG for Nitrite only is 197 µg/L
 BTV - Site-Specific Background Threshold Value (95% Upper Tolerance Limit (UTL) with 95% Coverage)
 DOC - Dissolved Organic Carbon
 CWQG – Canadian Water Quality Guideline
 EQS - Environmental Quality Standard
 L – Liter
 mg – Milligram
 µg – Microgram

References

- Canadian Council of Ministers of the Environment. 1999. Canadian Environmental Quality Guidelines, 1999. Canadian Council of Ministers of the Environment, Winnipeg, MB.
- Canadian Council of Ministers of the Environment. 2014. Canadian Water Quality Guidelines for the Protection of Aquatic Life: Zinc. In Canadian Environmental Quality Guidelines, 1999. Canadian Council of Ministers of the Environment, Winnipeg, MB.
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- Environment Canada. 2017. Federal Environmental Quality Guidelines: Cobalt. May 2017.
- Nova Scotia Environment. 2021. Table 3 – Nova Scotia Tier I Environmental Quality Standards (EQS) for Surface Water and Groundwater Discharging to Surface Water (µg/L).
- United States Environmental Protection Agency. 2015. ProUCL Version 5.1 User Guide. Statistical Software for Environmental Applications for Data Sets with and without Non-detect Observations. EPA/600/R-07/041. October 2015.

Regards,



Steven Jones
Project Director

Appendix C

Predictive Water Quality Assessment Results

Scenario Dates: 1/1/2029 2/1/2029 3/1/2029 4/1/2029 5/1/2029 6/1/2029 7/1/2029 8/1/2029 9/1/2029 10/1/2029 11/1/2029 12/1/2029

Table 1d: West Pit Water Quality Results - Mid-Extraction - Base Case

[illegible]

Table 1e: East Pit Water Quality Results - Mid-Extraction - Base Case

[illegible]

Table 1g: Southeast Pond Water Quality Results - Mid-Extraction - Base Case

[illegible]

	Constituent	January	February	March	April	May	June	July	August	September	October	November	December
252	Al	37.6	36	39.16	38.93	39.45	39.17	41.13	38.28	37.19	38.85	38.29	38.17
253	Sb	0.3175	0.3232	0.3426	0.3209	0.4012	0.5224	0.5918	0.6484	0.5682	0.419	0.3338	0.3062
254	As	9.601	9.634	10.43	9.934	12.18	15.75	17.9	19.53	17.18	12.86	10.35	9.391
255	Ba	0.6549	0.6589	0.6978	0.6633	0.784	0.9589	1.067	1.134	1.013	0.8036	0.6779	0.6394
256	Be	0.06167	0.05918	0.0651	0.06472	0.06784	0.07215	0.07787	0.07627	0.07189	0.06862	0.06458	0.06258
257	Cd	0.002522	0.002482	0.002671	0.002606	0.002872	0.003259	0.00356	0.00363	0.003339	0.002921	0.002626	0.002517
258	Cr	0.09779	0.09494	0.1045	0.1034	0.1131	0.129	0.1423	0.1455	0.1337	0.1168	0.1047	0.09873
259	Co	0.2234	0.2426	0.233	0.1976	0.28	0.3819	0.428	0.4801	0.41	0.2757	0.2045	0.1991
260	Cu	0.1726	0.1839	0.1781	0.155	0.2039	0.2598	0.2856	0.3108	0.2702	0.1969	0.1569	0.1572
261	Fe	59.07	56.72	61.71	61.16	62.93	64.09	67.91	64.49	61.85	62.36	60.41	59.81
262	Pb	0.09451	0.09277	0.1007	0.09887	0.1091	0.1252	0.1376	0.1411	0.1295	0.112	0.1	0.09479
263	Mn	5.837	5.709	6.353	6.254	7.188	8.837	9.976	10.62	9.533	7.641	6.461	5.869
264	Hg	0.0009329	0.000902	0.0009864	0.0009751	0.001039	0.001131	0.001226	0.001219	0.001138	0.001054	0.0009763	0.0009421
265	Ni	0.7763	0.754	0.8636	0.8595	1.011	1.304	1.5	1.632	1.449	1.108	0.9037	0.7881
266	Se	0.05816	0.05674	0.06175	0.06053	0.0664	0.07508	0.08228	0.08374	0.077	0.06778	0.06103	0.05831
267	Ag	0.008913	0.00863	0.009492	0.009372	0.01019	0.01146	0.01258	0.01277	0.01178	0.01046	0.009459	0.008991
268	Tl	0.00848	0.008211	0.00901	0.008905	0.009606	0.01068	0.01168	0.01177	0.01091	0.009827	0.008964	0.008561
269	U	0.05696	0.05767	0.06215	0.05885	0.07369	0.09749	0.1113	0.1227	0.1074	0.07831	0.06173	0.05539
270	V	0.2148	0.2087	0.231	0.2285	0.2527	0.2945	0.3271	0.3386	0.3094	0.264	0.2329	0.2169
271	Zn	1.23	1.217	1.312	1.282	1.434	1.674	1.845	1.91	1.744	1.476	1.302	1.228
272	Ammonia	51.42	49.65	57.69	57.64	68.63	90.05	104.4	114.3	100.9	75.92	61	52.4
273	Unionized Ammonia	0.4784	0.4612	0.539	0.5399	0.645	0.8527	0.9914	1.089	0.9596	0.7174	0.5732	0.4887
274	Nitrite	7.279	7.243	8.026	7.768	9.511	12.52	14.37	15.79	13.88	10.27	8.174	7.212
275	Nitrate	310.8	309.3	347	340.8	414.1	553.1	637.7	705	622.2	456.6	361.4	311.3
276	Cyanide	2.529	2.934	2.546	1.896	3.163	4.553	5.058	5.821	4.839	2.918	1.951	2.053

1/1/2029	2/1/2029	3/1/2029	4/1/2029	5/1/2029	6/1/2029	7/1/2029	8/1/2029	9/1/2029	10/1/2029	11/1/2029	12/1/2029
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Table 2d: West Pit Water Quality Results - Mid-Extraction - Upper Case

[illegible]

Table 2e: East Pit Water Quality Results - Mid-Extraction - Upper Case

[illegible]

Table 2g: Southeast Pond Water Quality Results - Mid-Extraction - Upper Case

[illegible]

1/1/20292/1/20293/1/20294/1/20295/1/20296/1/20297/1/20298/1/20299/1/202910/1/202911/1/202912/1/2029

Table 2K: Gold Brook Assessment Point #6 Water Quality Results - Mid-Extraction - Upper Case

Constituent	January	February	March	April	May	June	July	August	September	October	November	December
Al	38.18	36.58	39.81	39.56	40.23	40.21	42.32	39.6	38.35	39.7	38.96	38.74
Sb	0.4978	0.5003	0.5447	0.5204	0.6436	0.8461	0.9668	1.063	0.9327	0.6871	0.5457	0.4878
As	19	18.96	20.89	20.1	24.77	32.64	37.43	41.17	36.12	26.63	21.14	18.73
Ba	0.8937	0.8983	0.9625	0.918	1.102	1.388	1.561	1.683	1.493	1.15	0.9478	0.8748
Be	0.07428	0.0716	0.07923	0.07863	0.08478	0.0948	0.1041	0.1053	0.09738	0.08733	0.07935	0.07527
Cd	0.003108	0.00308	0.003317	0.00322	0.003647	0.004307	0.004763	0.004968	0.00451	0.003757	0.003275	0.003088
Cr	0.1229	0.1196	0.1326	0.1311	0.1468	0.174	0.1943	0.203	0.1843	0.1541	0.1341	0.124
Co	0.3648	0.3955	0.3825	0.3259	0.4627	0.6361	0.7157	0.8053	0.6873	0.4597	0.3387	0.3261
Cu	0.2249	0.2401	0.2336	0.2032	0.2719	0.3541	0.3926	0.4315	0.3732	0.2657	0.2074	0.2046
Fe	63.09	60.85	66.1	65.24	68.23	71.3	76.18	73.72	69.85	67.99	64.71	63.65
Pb	0.1193	0.1171	0.1285	0.1264	0.1424	0.1697	0.1892	0.1981	0.1796	0.149	0.1293	0.1198
Mn	9.353	9.167	10.29	10.14	11.91	15.15	17.28	18.7	16.64	12.86	10.59	9.408
Hg	0.001087	0.001054	0.001158	0.001144	0.001246	0.001407	0.001546	0.001572	0.001448	0.001281	0.001155	0.001096
Ni	1.628	1.589	1.819	1.807	2.155	2.83	3.268	3.584	3.17	2.378	1.911	1.649
Se	0.07138	0.06987	0.07648	0.0749	0.0841	0.09882	0.1097	0.1141	0.1037	0.08719	0.07627	0.07148
Ag	0.0115	0.01119	0.01238	0.0122	0.01366	0.0161	0.01795	0.01871	0.017	0.01428	0.01246	0.01158
Tl	0.01097	0.01066	0.01181	0.01167	0.01296	0.01516	0.01686	0.0175	0.01595	0.01353	0.0119	0.01107
U	0.1041	0.1057	0.1139	0.1076	0.1362	0.1822	0.2086	0.2311	0.2017	0.1452	0.1132	0.101
V	0.3041	0.2969	0.331	0.3272	0.3724	0.4544	0.512	0.5431	0.4896	0.3964	0.3376	0.3068
Zn	1.845	1.836	1.996	1.947	2.251	2.772	3.107	3.31	2.977	2.372	2.006	1.838
Ammonia	220.7	211.2	249.5	251.1	299.1	395.6	461.2	506.7	446.3	334.2	266.9	226.5
Unionized Ammonia	2.133	2.039	2.414	2.433	2.899	3.84	4.48	4.925	4.336	3.243	2.588	2.191
Nitrite	37.17	35.96	41.79	41.61	50.11	66.46	77.26	85.03	74.76	55.56	44.18	37.77
Nitrate	611.4	605.9	684	673.6	817.3	1092	1261	1393	1229	903.1	714.9	614.1
Cyanide	5.031	5.836	5.064	3.77	6.291	9.056	10.06	11.58	9.625	5.805	3.88	4.084

1/1/2033	2/1/2033	3/1/2033	4/1/2033	5/1/2033	6/1/2033	7/1/2033	8/1/2033	9/1/2033	10/1/2033	11/1/2033	12/1/2033
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Table 3a: North Pond Water Quality Results - Full Extraction - Base Case

[illegible]

1/1/2033	2/1/2033	3/1/2033	4/1/2033	5/1/2033	6/1/2033	7/1/2033	8/1/2033	9/1/2033	10/1/2033	11/1/2033	12/1/2033
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Table 3d: West Pit Water Quality Results - Full Extraction - Base Case

[illegible]

Table 3e: East Pit Water Quality Results - Full Extraction - Base Case

[illegible]

Table 3g: Southeast Pond Water Quality Results - Full Extraction - Base Case

[illegible]

1/1/2033 2/1/2033 3/1/2033 4/1/2033 5/1/2033 6/1/2033 7/1/2033 8/1/2033 9/1/2033 10/1/2033 11/1/2033 12/1/2033
Table 3K: Gold Brook Assessment Point #6 Water Quality Results - Full Extraction - Base Case

Constituent	January	February	March	April	May	June	July	August	September	October	November	December
Al	43.15	43.07	43.61	42.13	45.8	49.81	52.46	52.89	48.12	43.46	41.59	41.37
Sb	0.1997	0.2226	0.2011	0.261	0.361	0.4957	0.5364	0.6315	0.5615	0.3793	0.3059	0.2934
As	5.199	5.758	5.215	6.738	9.202	12.45	13.41	15.67	14	9.616	7.848	7.573
Ba	0.5318	0.5718	0.5352	0.6076	0.7809	1.01	1.085	1.234	1.098	0.7909	0.6692	0.6513
Be	0.06291	0.06335	0.06366	0.06308	0.07065	0.07991	0.08477	0.08818	0.07965	0.06815	0.06353	0.06272
Cd	0.002475	0.00258	0.002502	0.002536	0.003029	0.003689	0.003948	0.004319	0.00383	0.002964	0.002628	0.002576
Cr	0.08363	0.08595	0.08458	0.08367	0.09684	0.1141	0.1217	0.1302	0.116	0.09367	0.08506	0.08373
Co	0.1766	0.206	0.1751	0.2787	0.4089	0.5768	0.6214	0.7436	0.6694	0.4411	0.3477	0.3341
Cu	0.1637	0.1822	0.163	0.2221	0.3054	0.4112	0.4407	0.5141	0.4634	0.3204	0.2623	0.2546
Fe	65.4	65.49	66.08	64.95	71.6	79.14	83.53	85.36	77.61	68.52	64.85	64.34
Pb	0.08509	0.08879	0.08597	0.08387	0.09894	0.1194	0.1276	0.1385	0.1221	0.09534	0.0853	0.08397
Mn	4.007	4.253	4.068	4.344	5.455	7.015	7.586	8.59	7.566	5.485	4.667	4.506
Hg	0.000918	0.0009326	0.000928	0.0009229	0.001049	0.001206	0.001281	0.001348	0.001212	0.001013	0.0009347	0.0009226
Ni	0.3448	0.3724	0.3549	0.3713	0.485	0.6614	0.7281	0.8505	0.733	0.4956	0.4031	0.3792
Se	0.05288	0.05437	0.05342	0.05459	0.06385	0.0757	0.08064	0.08674	0.07774	0.0624	0.05635	0.05543
Ag	0.008041	0.008212	0.008136	0.008269	0.009576	0.01125	0.012	0.01283	0.01151	0.009356	0.008497	0.008346
Tl	0.008001	0.008173	0.008097	0.008114	0.009353	0.01095	0.01168	0.01245	0.01115	0.009092	0.008282	0.008142
U	0.03241	0.03686	0.03273	0.04346	0.06184	0.08714	0.09474	0.113	0.09987	0.06552	0.05175	0.04927
V	0.1742	0.1804	0.1767	0.1746	0.2053	0.2476	0.2655	0.2885	0.2549	0.1997	0.1785	0.1746
Zn	1.089	1.149	1.1	1.064	1.276	1.571	1.684	1.852	1.62	1.229	1.084	1.065
Ammonia	7.745	8.56	7.819	7.835	10.23	13.69	14.81	17.09	14.74	10.06	8.324	8.088
Unionized Ammonia	0.04715	0.05432	0.04771	0.04471	0.06187	0.08818	0.09631	0.1145	0.09621	0.06026	0.0473	0.04555
Nitrite	30.91	31.05	33.86	33.78	42.9	61.84	71.88	86.16	72.06	46.83	36.42	30.97
Nitrate	123.5	144.6	127.7	117.7	171.4	261.1	291.6	357.1	295.1	172.3	127.1	116.9
Cyanide	2.308	2.789	2.26	4.157	6.31	9.038	9.721	11.73	10.63	6.906	5.374	5.165

1/1/2033	2/1/2033	3/1/2033	4/1/2033	5/1/2033	6/1/2033	7/1/2033	8/1/2033	9/1/2033	10/1/2033	11/1/2033	12/1/2033
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[illegible][illegible]

1/1/2033	2/1/2033	3/1/2033	4/1/2033	5/1/2033	6/1/2033	7/1/2033	8/1/2033	9/1/2033	10/1/2033	11/1/2033	12/1/2033
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[illegible]

Table 4e: East Pit Water Quality Results - Full Extraction - Upper Case

[illegible]

Table 4g: Southeast Pond Water Quality Results - Full Extraction - Upper Case

[illegible]

1/1/2033 2/1/2033 3/1/2033 4/1/2033 5/1/2033 6/1/2033 7/1/2033 8/1/2033 9/1/2033 10/1/2033 11/1/2033 12/1/2033
Table 4K: Gold Brook Assessment Point #6 Water Quality Results - Full Extraction - Upper Case

Constituent	January	February	March	April	May	June	July	August	September	October	November	December
Al	43.44	43.41	43.9	42.45	46.28	50.53	53.25	53.86	48.95	43.96	41.97	41.72
Sb	0.2599	0.2921	0.2633	0.3312	0.463	0.6472	0.7045	0.8362	0.7362	0.4864	0.3869	0.3682
As	8.169	9.292	8.205	10.91	15.46	21.6	23.39	27.78	24.64	16.3	12.96	12.42
Ba	0.6387	0.6969	0.6439	0.7531	0.9961	1.325	1.43	1.653	1.464	1.021	0.8454	0.8168
Be	0.06814	0.06944	0.06902	0.06974	0.08044	0.09431	0.1006	0.1075	0.09634	0.07854	0.07144	0.0701
Cd	0.002897	0.003071	0.002933	0.003086	0.003838	0.004877	0.005254	0.005906	0.005208	0.003825	0.003285	0.003191
Cr	0.0935	0.09739	0.09472	0.09591	0.1148	0.1406	0.1509	0.1657	0.1466	0.1126	0.09948	0.09715
Co	0.2715	0.3194	0.2692	0.4358	0.6457	0.9178	0.9901	1.189	1.069	0.6986	0.5472	0.5248
Cu	0.1929	0.2173	0.1917	0.2729	0.3823	0.5216	0.5597	0.6579	0.593	0.4044	0.3275	0.3172
Fe	67.53	68.01	68.23	68.13	76.34	86.03	91.03	94.44	85.64	73.63	68.79	68.07
Pb	0.09496	0.1002	0.0961	0.09595	0.1166	0.1455	0.1565	0.1736	0.1523	0.114	0.09948	0.09716
Mn	5.392	5.859	5.491	6.065	7.974	10.73	11.69	13.58	11.87	8.152	6.695	6.393
Hg	0.0009833	0.001009	0.0009949	0.001007	0.001173	0.001389	0.001482	0.001593	0.001424	0.001146	0.001036	0.001017
Ni	0.6854	0.7693	0.7049	0.7773	1.081	1.546	1.705	2.04	1.752	1.121	0.8763	0.8193
Se	0.05845	0.06086	0.05911	0.06185	0.07455	0.09141	0.09791	0.1077	0.09596	0.07379	0.06504	0.06356
Ag	0.009101	0.009444	0.009222	0.009626	0.01157	0.01419	0.01523	0.01675	0.01491	0.01147	0.01011	0.009853
Tl	0.008977	0.009303	0.0091	0.009319	0.01111	0.01356	0.01455	0.01595	0.01416	0.01096	0.009698	0.00946
U	0.05619	0.06489	0.05673	0.07781	0.113	0.1617	0.176	0.2115	0.1867	0.1205	0.09401	0.08923
V	0.2092	0.2212	0.2126	0.2133	0.2621	0.3327	0.3599	0.4037	0.3526	0.2586	0.2226	0.2155
Zn	1.521	1.646	1.548	1.562	1.997	2.644	2.877	3.304	2.856	1.986	1.656	1.592
Ammonia	9.774	10.96	9.887	10.25	13.83	19.05	20.71	24.29	20.91	13.82	11.16	10.75
Unionized Ammonia	0.06327	0.07331	0.0643	0.06152	0.08668	0.1257	0.138	0.1656	0.1391	0.08566	0.06615	0.06301
Nitrite	54.53	54.79	59.77	59.77	76.07	109.9	127.8	153.3	128.2	83.15	64.56	54.82
Nitrate	224.5	263.5	231.8	220.6	323	491.4	547.9	671.1	557.3	326.8	241.4	222.6
Cyanide	4.59	5.547	4.495	8.268	12.55	17.98	19.33	23.34	21.13	13.74	10.69	10.27

1/1/2042	2/1/2042	3/1/2042	4/1/2042	5/1/2042	6/1/2042	7/1/2042	8/1/2042	9/1/2042	10/1/2042	11/1/2042	12/1/2042
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Table 5a: North Pond Water Quality Results - East Pit Filled - Base Case

[illegible]

Table 5b: TMF Water Quality Results - East Pit Filled - Base Case

[illegible]

Table 5c: Central Pond Water Quality Results - East Pit Filled - Base Case

[illegible]

1/1/2042	2/1/2042	3/1/2042	4/1/2042	5/1/2042	6/1/2042	7/1/2042	8/1/2042	9/1/2042	10/1/2042	11/1/2042	12/1/2042
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Table 5d: West Pit Water Quality Results - East Pit Filled - Base Case

[illegible]

Table 5e: East Pit Water Quality Results - East Pit Filled - Base Case

[illegible]

Table 5g: Southeast Pond Water Quality Results - East Pit Filled - Base Case

[illegible]

1/1/2042 2/1/2042 3/1/2042 4/1/2042 5/1/2042 6/1/2042 7/1/2042 8/1/2042 9/1/2042 10/1/2042 11/1/2042 12/1/2042
Table 5K: Gold Brook Assessment Point #6 Water Quality Results - East Pit Filled - Base Case

Constituent	January	February	March	April	May	June	July	August	September	October	November	December
Al	48.76	49.33	48.69	47.49	56.23	65.8	70.8	74.01	65.89	54.56	49.76	48.82
Sb	0.1837	0.2013	0.1854	0.1716	0.2332	0.3218	0.3541	0.4054	0.3431	0.2285	0.1843	0.1751
As	3.944	4.209	3.981	3.771	4.852	6.342	6.911	7.706	6.62	4.71	3.967	3.821
Ba	0.5427	0.5715	0.5453	0.5178	0.6611	0.852	0.9318	1.031	0.8888	0.6479	0.5522	0.5309
Be	0.0614	0.0623	0.062	0.0613	0.07076	0.08148	0.08637	0.08943	0.08016	0.06709	0.06178	0.06118
Cd	0.003703	0.003904	0.003669	0.003414	0.004518	0.00594	0.006581	0.007343	0.006296	0.004531	0.003815	0.003632
Cr	0.09489	0.09821	0.09512	0.09153	0.1126	0.1388	0.1504	0.1623	0.1419	0.1095	0.09639	0.09373
Co	0.08699	0.09484	0.08681	0.07927	0.1101	0.1531	0.17	0.1951	0.1648	0.11	0.08853	0.08346
Cu	0.1075	0.1109	0.1074	0.1029	0.1278	0.1586	0.173	0.1874	0.1634	0.1257	0.1102	0.1066
Fe	63.08	63.24	63.51	63.13	71.7	80.4	84.98	86.41	78.24	68.06	63.74	63.32
Pb	0.1103	0.1154	0.1105	0.1049	0.1338	0.1716	0.1882	0.2076	0.1792	0.1321	0.1131	0.1085
Mn	9.59	10.37	9.369	8.338	12.06	16.96	19.15	22.02	18.56	12.46	9.988	9.302
Hg	0.001126	0.001161	0.001122	0.001074	0.001331	0.00164	0.001786	0.001926	0.001685	0.001306	0.001151	0.001116
Ni	0.5903	0.6617	0.5958	0.5399	0.7697	1.108	1.228	1.433	1.201	0.7597	0.5909	0.5547
Se	0.06199	0.06413	0.06184	0.05913	0.07354	0.09117	0.0993	0.1075	0.0938	0.07212	0.06328	0.06133
Ag	0.00851	0.008774	0.008559	0.008307	0.01002	0.01213	0.01304	0.01393	0.01226	0.009648	0.008599	0.008416
Tl	0.009301	0.009635	0.009321	0.008961	0.01105	0.01365	0.0148	0.01599	0.01397	0.01075	0.00945	0.009185
U	0.03721	0.04161	0.03734	0.03358	0.04854	0.07027	0.07831	0.09153	0.07658	0.04846	0.0376	0.0351
V	0.2074	0.2176	0.208	0.1981	0.2499	0.3171	0.3451	0.3786	0.3281	0.2436	0.21	0.2031
Zn	1.309	1.375	1.32	1.262	1.597	2.052	2.241	2.475	2.136	1.561	1.333	1.281
Ammonia	3.91	3.893	3.979	4.014	4.457	4.927	5.173	5.213	4.748	4.192	3.957	3.934
Unionized Ammonia	0.01712	0.01719	0.01752	0.0176	0.02003	0.02311	0.02459	0.02554	0.02286	0.01905	0.01748	0.01715
Nitrite	15.16	15.04	16.57	16.88	21.32	30.03	34.47	40.12	34.09	22.88	18.03	15.45
Nitrate	28.2	29.9	27.56	24.56	36.03	51.36	58.99	68.26	57.44	38.59	30.67	27.83
Cyanide	0.004402	0.004837	0.00469	0.004475	0.006269	0.009393	0.01061	0.0126	0.01042	0.006308	0.004712	0.004192

1/1/2042	2/1/2042	3/1/2042	4/1/2042	5/1/2042	6/1/2042	7/1/2042	8/1/2042	9/1/2042	10/1/2042	11/1/2042	12/1/2042
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Table 6a: North Pond Water Quality Results - East Pit Filled - Upper Case

[illegible]

1/1/2042	2/1/2042	3/1/2042	4/1/2042	5/1/2042	6/1/2042	7/1/2042	8/1/2042	9/1/2042	10/1/2042	11/1/2042	12/1/2042
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Table 6d: West Pit Water Quality Results - East Pit Filled - Upper Case

[illegible]

Table 6e: East Pit Water Quality Results - East Pit Filled - Upper Case

[illegible]

Table 6g: Southeast Pond Water Quality Results - East Pit Filled - Upper Case

[illegible]

1/1/20422/1/20423/1/20424/1/20425/1/20426/1/20427/1/20428/1/20429/1/204210/1/204211/1/204212/1/2042

Table 6K: Gold Brook Assessment Point #6 Water Quality Results - East Pit Filled - Upper Case

Constituent	January	February	March	April	May	June	July	August	September	October	November	December
Al	49.21	49.86	49.15	47.89	56.85	66.73	71.84	75.26	66.93	55.18	50.22	49.24
Sb	0.2904	0.325	0.2935	0.267	0.3781	0.5424	0.6002	0.6993	0.5863	0.3722	0.2904	0.273
As	6.718	7.41	6.784	6.242	8.61	12.05	13.3	15.32	12.92	8.461	6.745	6.378
Ba	0.7095	0.7626	0.713	0.6653	0.8861	1.193	1.314	1.486	1.266	0.8743	0.7207	0.6856
Be	0.07116	0.07349	0.07182	0.06994	0.08394	0.1014	0.1088	0.1161	0.1022	0.08035	0.07165	0.07024
Cd	0.004433	0.004742	0.004404	0.004059	0.005503	0.007432	0.008256	0.009337	0.007948	0.005522	0.004553	0.00431
Cr	0.1136	0.1197	0.1139	0.108	0.1377	0.1769	0.1931	0.2132	0.1841	0.1348	0.1152	0.111
Co	0.1302	0.1447	0.1306	0.118	0.1688	0.2422	0.2697	0.314	0.2632	0.1685	0.1318	0.1233
Cu	0.1136	0.1179	0.1136	0.1085	0.1362	0.1712	0.1872	0.2042	0.1774	0.134	0.1164	0.1122
Fe	65.31	65.81	65.75	65.09	74.71	84.96	90.1	92.5	83.29	71.09	66	65.39
Pb	0.1307	0.1388	0.131	0.1229	0.1613	0.2132	0.235	0.2632	0.2253	0.1597	0.1336	0.1274
Mn	12.32	13.5	12.12	10.76	15.75	22.55	25.42	29.49	24.74	16.17	12.75	11.84
Hg	0.001238	0.001289	0.001234	0.001172	0.001481	0.001868	0.002042	0.002231	0.001937	0.001458	0.001263	0.00122
Ni	1.331	1.506	1.336	1.189	1.763	2.61	2.919	3.443	2.866	1.767	1.344	1.245
Se	0.07135	0.07488	0.07124	0.06737	0.08614	0.1103	0.1207	0.133	0.115	0.08481	0.07272	0.07001
Ag	0.01037	0.01091	0.01043	0.009944	0.01253	0.01593	0.01731	0.01901	0.01647	0.01217	0.01048	0.01014
Tl	0.01116	0.01177	0.01119	0.0106	0.01355	0.01745	0.01906	0.02107	0.01818	0.01327	0.01133	0.01091
U	0.06757	0.07643	0.06784	0.06037	0.08946	0.1323	0.1479	0.1744	0.1452	0.08963	0.06821	0.06324
V	0.2669	0.2864	0.268	0.2509	0.3304	0.4394	0.482	0.5418	0.4632	0.324	0.2696	0.2581
Zn	2.112	2.306	2.131	1.973	2.684	3.705	4.088	4.68	3.96	2.642	2.132	2.019
Ammonia	4.367	4.389	4.461	4.471	5.099	5.882	6.257	6.496	5.813	4.85	4.454	4.375
Unionized Ammonia	0.02122	0.02164	0.02188	0.02178	0.02584	0.03175	0.03438	0.03714	0.03248	0.02497	0.02194	0.0211
Nitrite	26.12	25.89	28.65	29.25	36.96	52.25	60.04	70.02	59.45	39.74	31.22	26.65
Nitrate	70.77	75.83	68.33	59.39	90.75	132	152.4	177.6	148.7	98.12	76.94	69.52
Cyanide	0.008756	0.009621	0.009328	0.008901	0.01247	0.01868	0.02109	0.02506	0.02072	0.01255	0.009372	0.008337

Table 7a: North Pond Water Quality Results - West Pit Filled - Base Case

[illegible]

1/1/2058	2/1/2058	3/1/2058	4/1/2058	5/1/2058	6/1/2058	7/1/2058	8/1/2058	9/1/2058	10/1/2058	11/1/2058	12/1/2058
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Table 7K: Gold Brook Assessment Point #6 Water Quality Results - West Pit Filled - Base Case

[illegible]

[illegible][illegible]

1/1/2058	2/1/2058	3/1/2058	4/1/2058	5/1/2058	6/1/2058	7/1/2058	8/1/2058	9/1/2058	10/1/2058	11/1/2058	12/1/2058
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Table 8d: West Pit Water Quality Results - West Pit Filled - Upper Case

[illegible]

Table 8e: East Pit Water Quality Results - West Pit Filled - Upper Case

[illegible]

Table 8g: Southeast Pond Water Quality Results - West Pit Filled - Upper Case

[illegible]

1/1/2058	2/1/2058	3/1/2058	4/1/2058	5/1/2058	6/1/2058	7/1/2058	8/1/2058	9/1/2058	10/1/2058	11/1/2058	12/1/2058
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Table 8h: Gold Brook Lake Water Quality Results - West Pit Filled - Upper Case

[illegible]

Table 8I: Gold Brook Assessment Point #2 Water Quality Results - West Pit Filled - Upper Case

[illegible]

Table 8J: Gold Brook Assessment Point #4 Water Quality Results - West Pit Filled - Upper Case

[illegible]

Table 8K: Gold Brook Assessment Point #6 Water Quality Results - West Pit Filled - Upper Case

[illegible]

1/1/2071 2/1/2071 3/1/2071 4/1/2071 5/1/2071 6/1/2071 7/1/2071 8/1/2071 9/1/2071 10/1/2071 11/1/2071 12/1/2071

Table 9a: North Pond Water Quality Results - End of Model - Base Case

[illegible]

Table 9b: TMF Water Quality Results - End of Model - Base Case

[illegible]

Table 9c: Central Pond Water Quality Results - End of Model - Base Case

[illegible]

1/1/2071 2/1/2071 3/1/2071 4/1/2071 5/1/2071 6/1/2071 7/1/2071 8/1/2071 9/1/2071 10/1/2071 11/1/2071 12/1/2071

Table 9d: West Pit Water Quality Results - End of Model - Base Case

[illegible]

Table 9e: East Pit Water Quality Results - End of Model - Base Case

[illegible]

Table 9g: Southeast Pond Water Quality Results - End of Model - Base Case

[illegible]

1/1/2071 2/1/2071 3/1/2071 4/1/2071 5/1/2071 6/1/2071 7/1/2071 8/1/2071 9/1/2071 10/1/2071 11/1/2071 12/1/2071

Table 9K: Gold Brook Assessment Point #6 Water Quality Results - End of Model - Base Case

[illegible]

1/1/2071 2/1/2071 3/1/2071 4/1/2071 5/1/2071 6/1/2071 7/1/2071 8/1/2071 9/1/2071 10/1/2071 11/1/2071 12/1/2071

Table 10a: North Pond Water Quality Results - End of Model - Upper Case

[illegible]

Table 10b: TMF Water Quality Results - End of Model - Upper Case

[illegible]

Table 10c: Central Pond Water Quality Results - End of Model - Upper Case

[illegible]

1/1/2071 2/1/2071 3/1/2071 4/1/2071 5/1/2071 6/1/2071 7/1/2071 8/1/2071 9/1/2071 10/1/2071 11/1/2071 12/1/2071

Table 10d: West Pit Water Quality Results - End of Model - Upper Case

[illegible]

Table 10e: East Pit Water Quality Results - End of Model - Upper Case

[illegible]

Table 10g: Southeast Pond Water Quality Results - End of Model - Upper Case

[illegible]

1/1/2071	2/1/2071	3/1/2071	4/1/2071	5/1/2071	6/1/2071	7/1/2071	8/1/2071	9/1/2071	10/1/2071	11/1/2071	12/1/2071
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Table 10K: Gold Brook Assessment Point #6 Water Quality Results - End of Model - Upper Case

[illegible]



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